

---

# ANESTHESIA — ANALGESIA

---

*Journal of the International Anesthesia Research Society*

---

Index  
Volume 73, 1991

## **BOARD OF TRUSTEES**

### **International Anesthesia Research Society**

*Douglas B. Craig, MD, FRCPC, Chairman*

*Noel W. Lawson, MD, Vice Chairman and Treasurer*

*Bruce F. Cullen, MD, Secretary*

*David R. Beven, MA, MB, BChir*

*Edward D. Miller, Jr, MD*

*Dean H. Morrow, MD*

*Robert K. Stoelting, MD*

*Stephen J. Thomas, MD*

*John L. Waller, MD*

*K. C. Wong, MD, PhD*

*E. Paul Didier, MD, Emeritus Trustee*

*Paul R. Dumke, MD, Emeritus Trustee*

*John T. Martin, MD, Emeritus Trustee*

*Emerson A. Moffitt, MD, Emeritus Trustee*

*Morris J. Nicholson, MD, Emeritus Trustee*

*B. B. Sankey, MD, Emeritus Trustee*

*T. H. Seldon, MD, Emeritus Trustee*

## **EDITORIAL BOARD**

### **Anesthesia and Analgesia**

*Editor-in-Chief*

Ronald D. Miller, MD

*Association Editor-in-Chief*

John H. Tinker, MD

*Editors*

David R. Bevan, MA, MB, BChir

Phillip O. Bridenbaugh, MD, *Regional Anesthesia and Pain Management*

Mieczyslaw Finster, MD, *Obstetric Anesthesia*

Thomas J. Gal, MD

Paul R. Hickey, MD, *Pediatric Anesthesia*

Patricia A. Kapur, MD, *Ambulatory Anesthesia*

Edward D. Miller, Jr, MD

Kenjiro Mori, MD

Walter S. Nimmo, MD, BSc, FRCP, FFARCS

Nathan L. Pace, MD

Richard J. Palahniuk, MD

Ronald G. Pearl, MD, PhD, *Critical Care*

Donald S. Prough, MD, *Neurosurgical Anesthesia*

Joseph G. Reves, MD, *Cardiovascular Anesthesia*

John J. Savarese, MD

Hugo Van Aken, MD

*Book Review Editor*

Norig Ellison, MD

## Author Index

- Abdel-Latif M, see Crystal GJ  
Abou-Donia MM. Lack of interaction between prior succinylcholine administration and doxacurium-induced neuromuscular block (letter), 237  
Abouleish E, Merriman T. In obstetrics: keep the water colorless and clear (letter), 674  
Afshar M, see Larijani GE  
Aho MS, Erkola OA, Scheinin H, Lehtinen A-M, Korttila KT. Effect of intravenously administered dexmedetomidine on pain after laparoscopic tubal ligation, 112  
Akins RE, see Audenaert SM  
Alagesan R, see Reinsel RA  
Albin MS, Ritter RR, Pruitt CE, Kalff K. Venous air embolism during lumbar laminectomy in the prone position: report of three cases, 346  
Albrecht RF, see Hoffman WE  
Allen G. Propofol and malignant hyperthermia (letter), 359  
Alsip NL, see Asher EF  
Alston RP. Cerebral circulation and oxygen uptake parallels (letter), 504  
Anagnostou JM, see Moorthy SS  
Andersen KH. A method to assess correct endotracheal tube placement (letter), 507  
Annat GJ, see Viale JP  
Antebi ME. Preanesthetic Assessment. Volume 8, No. 4 of Anesthesia Clinics of North America by Elizabeth A. M. Frost, ed. (book review), 511  
Antoine JA, see Reynolds PC  
Anzai Y, Nishikawa T. Heart rate responses to body tilt during spinal anesthesia, 385  
Apfelbaum JL, see Lichtor JL  
Applegate RL II, see Schell RM  
Arendt I, see Brüssel T  
Arimura H, Bosnjak ZJ, Hoka S, Kampine JP. Modifications by halothane of responses to acute hypoxia in systemic vascular capacitance, resistance, and sympathetic nerve activity in dogs, 319  
see Sato M  
Arismendi J, see Ramanathan S  
Arndt GA, Klessig H. Aseptic closed system for injections through continuous spinal catheters (letter), 824  
Arthur GR, see Feldman HS  
Asher EF, Alsip NL, Zhang PY, Harris PD. Halothane attenuates small arteriole vasodilation to serotonin (5-HT) in skeletal muscle, 583  
Ashurst NH. Use of a "loading port" for syringe pumps (letter), 670  
Atkins RF. Prevention of tachycardia and hypertension associated with tracheal intubation (letter), 502  
Audenaert SM, Montgomery CL, Stone B, Akins RE, Lock RL. Retrograde-assisted fiberoptic tracheal intubation in children with difficult airways, 660  
Axelson K, see Nydahl P-A  
Babin M, see Bernard J-M  
Bacon DR, Lema MJ. The International Anesthesia Research Society seal (letter), 830  
Badner NH, Komar WE. Addition of low-dose bupivacaine to epidural fentanyl infusion (letter, reply), 367  
Komar WE. Analgesic synergy between intrathecal opioids and local anesthetics (letter, reply), 366  
Baele PL, see Gautier PE  
Baggish MS, see Mangar D  
Baker TR, see Hogue CW Jr  
Banks SJM, see Maze M  
Baraka A. Is hypoxic pulmonary vasoconstriction exaggerated during one-lung ventilation in patients with patent ductus arteriosus? (letter, reply), 358  
Barker SJ. Methods comparison in clinical observational studies (letter, reply), 831  
Hyatt J. Continuous measurement of intraarterial pH,  $\text{Paco}_2$ , and  $\text{Pao}_2$  in the operating room, 43  
Barnes RB, see Cooley DM  
Bashein G, see Nessly ML  
Boughman VL, see Hoffman WE  
Baum VC, Tecson ME. Ketamine inhibits transsarcolemmal calcium entry in guinea pig myocardium: direct evidence by single cell voltage clamp, 804  
Baumgartner RK, see Kingsley CP  
Bedford RF, see Reinsel RA  
Beebe DS, Belani KG, Mergens P, Liao J-C, So SKS, Najarian JS, Palahniuk RJ. Anesthetic management of infants receiving an adult kidney transplant, 725  
Belani KG, Tuohy SE, Sweeney MF, Gillingham K, Komanduri V, Palahniuk RJ. Is dantrolene safe to administer in sepsis? The effect of dantrolene after endotoxin administration in dogs and rats, 289  
Belani KG, see Beebe DS  
Benhamou D, Veillette Y, Narchi P, Coffey C. Ventilatory effects of premedication with clonidine, 799  
Bennett H, Glassenberg R. Another cause for obstruction of intravenous infusion tubing (letter), 98  
Benson KT, see Nakazawa K  
Benumof JL, see Brodsky JB  
Berman ML, see Hyman SA  
Bernard J-M, Pinaud M, François T, Babin M, Macquin-Mavier I, Letenueur J. Deliberate hypotension with nifedipine or nitroprusside during total hip arthroplasty, 341  
Bertrand OM, see Viale JP  
Bertrix L, Timour Q, Mazze RI, Freysz M, Samii K, Faucon G. Adverse interaction between bupivacaine and halothane on ventricular contractile force and intraventricular conduction in the dog, 434  
Bettencourt J, see Reynolds PC  
Betts J, see Rowe RW  
Bevacqua BK, Cleary WF, Slucky AV. Catheter spinal anesthesia and cauda equina syndrome: an alternative view (letter), 367  
Birmingham PK. The Pediatric Anesthesia Handbook by Charlotte Bell, Cindy W. Hughes, and Tae Hee Oh, eds. (book review), 834  
Bishop MJ, see deLima LGR  
Bissonnette B, see Hartley EJ  
Blake DW, Way D, Trigg L, Langton D, McGrath BP. Cardiovascular effects of volatile anesthesia in rabbits: influence of chronic heart failure and enalapril treatment, 441  
Bodner M, White PF. Antiemetic efficacy of ondansetron after outpatient laparoscopy, 250  
Bogetz MS. Anesthesia for Ambulatory Surgery by Bernard V. Wetchler, ed. (book review), 101  
Bohner D, see Drasner K  
Bose D, see Patel LR  
Bosnjak ZJ  
see Arimura H  
see Polic S  
Boudreault D, Brasseur L, Samii K, Lemoing J-P. Comparison of continuous epidural bupivacaine infusion plus either continuous

- epidural infusion or patient-controlled epidural injection of fentanyl for postoperative analgesia, 132
- Bourke DL, Grayson RF. Digital nerve blocks can restore pulse oximeter signal detection, 815
- Bradley EL Jr  
see Gregoretti S  
see Kissin I
- Brandom BW, see Woelfel SK
- Brasseur L, see Boudreault D
- Braverman B  
see Paulissian R
- Breen PH, see Isserles SA
- Brits W, see Coetze AA
- Brock-Utne JG  
see Egan TD  
see Jarvis D
- Brodnier G, see Brüssel T
- Brodsky JB, Benumof JL, Ehrenwerth J, Ozaki GT. Depth of placement of left double-lumen endobronchial tubes, 570
- Brown BR Jr, Frink EJ Jr. Metabolism of sevoflurane (letter), 671
- Sevoflurane breakdown in soda lime (letter), 670
- Brown M, see Weinger MB
- Brown PT, see Kissin I
- Brudon JR, see Viale JP
- Bruell SJ, Silverman DG. Visual assessment of train-of-four and double burst-induced fade at submaximal stimulating currents, 627
- Brüssel T, Fitch W, Brodnier G, Arendt I, Van Aken H. Effects of halothane in low concentrations on cerebral blood flow, cerebral metabolism, and cerebrovascular autoregulation in the baboon, 758
- Buckley S, see Spiess BD
- Bugedo G, see Dagnino J
- Cahalan MK, Weiskopf RB, Eger EI II, Yasuda N, Ionescu P, Rampil IJ, Lockhart SH, Freire B, Peterson NA. Hemodynamic effects of desflurane/nitrous oxide anesthesia in volunteers, 157
- see Weiskopf RB  
see Yasuda N
- Caldwell JE, see Yasuda N
- Campbell C, Viswanathan S, Riopelle JM, Naragh M. Manufacturing defect in a double-lumen tube (letter), 825
- Campbell FW, see Litman RS
- Camporesi EM, see Mangar D
- Camu F, see Verborgh C
- Capan L, see Ruskin KJ
- Carabine UA, Milligan KR, Moore JA. Adrenergic modulation of preoperative anxiety: a comparison of temazepam, clonidine, and timolol, 633
- Carpenter RL, see Strum DP
- Carr DB, see Silbert BS
- Cartabuke RS, Davidson PJ, Warner LO. Is premedication with oral glycopyrrolate as effective as oral atropine in attenuating cardiovascular depression in infants receiving halothane for induction of anesthesia?, 271
- Casey WF, see Patel RI
- Cepeda MS, see Silbert BS
- Cheng EY, see Sprung J
- Cheng MA, see Hoffman WE
- Cheung AT, see Weiss SJ
- Chung J, see Graf G
- Cioffi AM, see Rosenblatt WH
- Claeys M-A, see Verborgh C
- Cleary WF, see Bevacqua BK
- Coetze AA, Brits W, Genade S, Lochner A. Halothane does have protective properties in the isolated ischemic rat heart, 711
- Cohen HC, see Paulissian R
- Cohen M, see Loewinger J
- Cohen MM. URI or preoperative obstruction? (letter, reply), 828
- Cole DJ, see Matsumura JS
- Coleman P, see Ramanathan J
- Conrad PL, see Rosenblatt M
- Cook DR  
see Fischer CG  
see Woelfel SK
- Cooley DM, Glosten B, Roberts JR, Eppes PD, Barnes RB. Bronchospasm after intramuscular 15-methyl prostaglandin F<sub>2α</sub> and endotracheal intubation in a nonasthmatic patient, 87
- Coombs DW, Fine N. Spinal anesthesia using subcutaneously implanted pumps for intrathecal drug infusion, 226
- see Fleming BM
- Correll JW, see Young WL
- Coté CJ, see Rolf N
- Covino BG, see Feldman HS
- Cozian AY, see Lepage J-YM
- Crystal CJ, Kim S-J, Salem MR, Abdel-Latif M. Myocardial oxygen supply/demand relations during phenylephrine infusions in dogs, 283
- see Paulissian R
- Dagnino J, Bugedo G. How much epinephrine in a wash (letter), 673
- Datta S, see Ferrante FM
- Daunt D, see Maze M
- Davidson PJ, see Cartabuke RS
- Day FJ. Back pain in volunteers after epidural anesthesia with chloroprocaine (letter), 232
- de Lange S, see Punt CD
- Defalque RJ. A "new" brachial plexus block: some questions and objections (letter), 239
- DeFontes J, see Drasner K
- DeLaria GA, see Tuman KJ
- deLima LGR, Bishop MJ. Lung laceration after tracheal extubation over a plastic tube changer, 350
- deLisser EA, see Helfman SM
- Desuzinges CJ, see Viale JP
- DeWitt DS, see Prough DS
- Diaz J, see Lien CA
- Dierdorf SF, see Moorthy SS
- Dillon F, see Sosis M
- Dobson CE II, see Eisenach JC
- Dohi S, see Matsumiya N
- Donahue PJ. More about the esophageal detector (letter), 671
- Donati FA, see Meistelman C
- Dong M-L, see Woelfel SK
- Doucette AM, see Feldman HS
- Drasner K, Rigler ML, Krejcie TC, Yelich SJ, Scholnick FT, DeFontes J, Bohner D. Catheter spinal anesthesia and cauda equina syndrome: an alternative view (letter, reply), 369
- Drummond JC, see Kalkman CJ
- Dubois MY, Fleming NW, Lea DE. Lack of interaction between prior succinylcholine administration and doxacurium-induced neuromuscular block (letter, reply), 237
- Dubow HD, see Jacobs BR
- Dundee JW. Safety of alcohol after midazolam (letter), 829
- Dwyer R, see Laster MJ
- East TD, see Pace NL
- Eastwood DW. Anterior spinal artery syndrome after epidural anesthesia in a pregnant diabetic patient with scleredema, 90
- Hematoma after epidural anesthesia: relationship of skin and spinal angiomas, 352
- Eckenhoff RG. Problems in Respiratory Care: Clinical Applications of Hyperbaric Oxygen by R. E. Moon and E. M. Camporesi, eds. (book review), 678
- Eckerle JS, see Kemmotsu O
- Ecoffey C  
see Benhamou D  
see O'Kelly B
- Edelman G, see Hoffman WE
- Egan TD, Brock-Utne JG. Asystole after anesthesia induction with a fentanyl, propofol, and succinylcholine sequence, 818
- Eger EI II. Implications of lethal anesthetic doses (letter), 830

- Metabolism of sevoflurane (letter, reply), 671  
see Cahalan MK  
see Laster MJ  
see Liu J  
see Strum DP  
see Sutton TS  
see Weiskopf RB  
see Yasuda N  
Ehrenwerth J, see Brodsky JB  
Eisenach JC, Schlairet TJ, Dobson CE II,  
    Hood DH. Effect of prior anesthetic  
    solution on epidural morphine  
    analgesia, 119  
Elam M, see Kirnö K  
Ellis JS Jr, see Romanoff ME  
Ellison N. Principles of Transfusion  
    Medicine by E. C. Rossi, T. L.  
    Simon, and G. S. Moss, eds. (book  
    review), 241  
Elpeleg ON. Management of a systemic  
    carnitine deficiency (letter), 672  
Elton RJ. Alternative chin-support device  
    during face mask anesthesia (letter),  
    235  
England R, see Hyman SA  
Eppes PD, see Cooley DM  
Erkola OA, see Aho MS  
  
Falvey EA, see Rosenblum M  
Faucon G, see Bertrix L  
Fein S, see Fletcher JE  
Feldman D, see Maze M  
Feldman HS, Arthur GR, Pitkanen M,  
    Hurley R, Doucette AM, Covino  
    BG. Treatment of acute systemic  
    toxicity after the rapid intravenous  
    injection of ropivacaine and  
    bupivacaine in the conscious dog,  
    373  
Ferrante FM, Lu L, Jamison SB, Datta S.  
    Patient-controlled epidural  
    analgesia: demand dosing, 547  
Fine N, see Coombs DW  
Fischer CG, Cook DR. Endotracheal tube  
    cuff pressure in the use of nitrous  
    oxide (letter), 99  
Fitch W, see Brüssel T  
Fleming BM, Coombs DW. Bleeding  
    diathesis after perioperative  
    ketorolac (letter), 235  
Fleming J, see Perrino AC Jr  
Fleming NW, see Dubois MY  
Fletcher JE, Sebel PS, Murphy MR, Mick  
    SA, Fein S. Comparison of  
    ocfentanil and fentanyl as  
    supplements to general anesthesia,  
    622  
Sebel PS, Murphy MR, Smith CA, Mick  
    SA, Flister MP. Psychomotor  
    performance after desflurane  
    anesthesia: a comparison with  
    isoflurane, 260  
Flister MP, see Fletcher JE  
  
François T, see Bernard JM  
Frasca A, see Graf G  
Free E, see Rowe RW  
Freire B  
    see Cahalan MK  
    see Weiskopf RB  
Freysz M, see Bertrix L  
Friedmann-Neiger I, see Loewinger J  
Frink EJ Jr, see Brown BR Jr  
  
Gattiker RI, see Weiss BM  
Gautier PE, Baele PL, Guerit JM, Kestens-  
    Servaye Y. Changes in  
    somatosensory evoked responses  
    during carotid endarterectomy  
    related to head position, 649  
Gebhart GF, see Maves TJ  
Genade S, see Coetzee AA  
Gershon RY, Mokrski BLK, Matjasko MJ.  
    Intradermal anesthesia and  
    comparison of intravenous catheter  
    gauge, 469  
Gerson JJ, see Mangar D  
Gevirtz CM. Improving Anesthesia  
    Outcome. Volume, 5, No. 2 of  
    Problems in Anesthesia by John H.  
    Eichhorn, ed. (book review), 833  
Gibbons JJ, see Yassin K  
Gibbs PS, see Satz AK  
Gilbert TB, Shaffer M, Matthews M.  
    Electrical shock by dislodged spark  
    gap in bipolar electrosurgical  
    device, 355  
Gillingham K, see Beebe DS  
Glassenberg R, see Bennett H  
Glosten B, see Cooley DM  
Gold MI  
    see Helfman SM  
    see Rosenberg AL  
Gordon AG. Hyperacusis after spinal  
    anesthesia (letter), 506  
Goto H, see Nakazawa K  
Graf G, Sinatra R, Chung J, Frasca A,  
    Silverman DG. Epidural sufentanil  
    for postoperative analgesia: dose-  
    response in patients recovering  
    from major gynecologic surgery, 405  
Gratz I, see Larijani GE  
Grayson RF, see Bourke DL  
Greenberg CS, see Steele SM  
Greene NM. Studies of Narcosis by C. E.  
    Overton, 1901, English translation  
    edited by R. L. Lipnick (book  
    review), 102  
Gregoretti S, Henderson CT, Bradley EL  
    Jr. Simultaneous cardiac output  
    measurements by transtracheal  
    Doppler, electromagnetic flow  
    meter, and thermodilution during  
    various hemodynamic states in  
    pigs, 455  
Groeneveld ABJ, Vermeij CG, Thijs LG.  
    Arterial and mixed venous blood  
    acid-base balance during  
hypoperfusion with incremental  
    positive end-expiratory pressure in  
    the pig, 576  
Gross JB, see Rosenblum M  
Gruenke LD, see Sutton TS  
Guarnieri DM. Manual of Anesthesia and  
    the Medically Compromised Patient  
    by E. Y. Cheng and J. Kay, eds.  
    (book review), 512  
Guerit JM, see Gautier PE  
  
Haberkern CM, see Sharar SR  
Hackmann T. Sensitivity and specificity of  
    tests of malignant hyperthermia  
    susceptibility (letter), 233  
Hannallah RS, see Patel RI  
Harris PD, see Asher EF  
Hartley EJ, Bissonnette B, St-Louis P,  
    Rybaczynski J, McLeod ME. Scalp  
    infiltration with bupivacaine in  
    pediatric brain surgery, 29  
Hastings RH, Marks JD. Airway  
    management for trauma patients  
    with potential cervical spine  
    injuries, 471  
Hauger R, see Weinger MB  
Heino R, see Reinsel RA  
Helfman SM, Gold MI, deLisser EA,  
    Herrington CA. Prevention of  
    tachycardia and hypertension  
    associated with tracheal intubation  
    (letter, reply), 503  
Helias JH, see Lepage J-YM  
Henderson CT, see Gregoretti S  
Herrington CA, see Helfman SM  
Heyman HJ, see Paulissian R  
Hickey PR. Cardiac dysrhythmias in  
    pediatric patients during anesthesia  
    and the role of oximetry and  
    capnography (editorial), 686  
Himmel HM, Schappert T, Ravens U.  
    Combined effects of volatile  
    anesthetics and phosphodiesterase  
    inhibitors on contractile  
    performance in guinea pig hearts,  
    76  
Hiraoka I, see Oshita S  
Hoffman WE, Cheng MA, Thomas C,  
    Baughman VL, Albrecht RF.  
    Clonidine decreases plasma  
    catecholamines and improves  
    outcome from incomplete ischemia  
    in the rat, 460  
Edelman G, Kochs E, Werner C, Segil L,  
    Albrecht RF. Cerebral  
    autoregulation in awake versus  
    isoflurane-anesthetized rats, 753  
Hoffmann RG, see Polic S  
Hogue CW Jr, Martyn J, Baker TR, Vouros  
    P. Recovery of pancuronium from  
    peritoneal dialysate in a severely  
    burned child, 83  
Hoka S  
    see Arimura H

- see Sato M  
 Hood DH, see Eisenach JC  
 Hu W-c, see Spahn DR  
 Hurley R, see Feldman HS  
 Hyatt J, see Barker SJ  
 Hyman SA, Smith DW, England R,  
     Naukam R, Berman ML. Pulmonary  
     artery catheter introducers: do the  
     component parts affect flow rate?,  
     573  
 Hyndon JM, Sessler DJ. Back pain in  
     volunteers after epidural anesthesia  
     with chloroprocaine (letter, reply),  
     232  
 Ide T, see Kochi T  
 Ionescu P  
     see Cahalan MK  
     see Weiskopf RB  
     see Yasuda N  
 Ishikawa T, see Kemmotsu O  
 Ishizawa Y, see Watanabe S  
 Isono S, see Kochi T  
 Isserles SA, Breen PH. Can changes in  
     end-tidal  $\text{PCO}_2$  measure changes in  
     cardiac output?, 808  
 Ivankovich AD  
     see Sosis MB  
     see Tuman KJ  
 Izumi Y, see Kochi T  
 Jack R, see Sharar SR  
 Jacobs BR, Swift CA, Dubow HD,  
     Kosaravadi B, McGoldrick K,  
     O'Connor TZ, Silverman DG. Time  
     required for oral ranitidine to  
     decrease gastric fluid acidity, 787  
 Jamison SB, see Ferrante FM  
 Jarvis D, Brock-Utne JG. Use of an oxygen  
     concentrator linked to a drawer vaporizer (letter, reply), 827  
 Jayais P, see O'Kelly B  
 Johansson ML, see Kissin I  
 Johansson J-E, see Nydahl P-A  
 Johnson BH  
     see Strum DP  
     see Weiskopf RB  
 Johnson MD, see Moran DH  
 Jones BR, see Ley SJ  
 Joseph NJ, see Paulissian R  
 Joyce TH III. Anesthetic and Obstetrical  
     Management of High Risk  
     Pregnancy by Sanjay Datta, ed.  
     (book review), 103  
 Kalff K, see Albin MS  
 Kalkman CJ, Drummond JC, Ribberink  
     AA. Low concentrations of  
     isoflurane abolish motor evoked  
     responses to transcranial electrical  
     stimulation during nitrous oxide/  
     opioid anesthesia in humans, 410  
 Kampine JP  
     see Arimura H  
 see Polic S  
 see Poterack KA  
 Kanto JH, see Kirvelä OA  
 Kao YJ, Norton RG, Kleinman S. Is  
     hypoxic pulmonary vasoconstriction  
     exaggerated during one-lung  
     ventilation in patients with patent  
     ductus arteriosus? (letter), 358  
 Kapur PA. Editorial: the big "little  
     problem," 243  
 Kaye CI, see Sloan TB  
 Kelley S, see Weiskopf RB  
 Kemmotsu O, Ueda M, Otsuka H,  
     Yamamura T, Okamura A, Ishikawa  
     T, Winter DC, Eckerle JS. Blood  
     pressure measurement by arterial  
     tonometry in controlled  
     hypotension, 54  
 Kennedy RH, see Seifen AB  
 Keon TP, see Litman RS  
 Kestenbaum A, Savarese JJ.  
     Interdisciplinary Pain Management.  
     International Anesthesiology  
     Clinics, Volume 29, No. 1 by Philip  
     W. Lebowitz, ed. (book review), 677  
 Kestens-Servaye Y, see Gautier PE  
 Kharatian A, see Rosenblatt WH  
 Khoo P, see Ramanathan S  
 Kien ND, Kramer GC, White DA. Acute  
     hypotension caused by rapid  
     hypertonic saline infusion in  
     anesthetized dogs, 597  
 Kim S-J, see Crystal GJ  
 Kimura T, see Matsumiya N  
 King H-K, Wooten DJ, Liao BS.  
     Continuous spinal anesthesia with  
     hyperbaric and isobaric bupivacaine  
     (letter), 674  
 Kingsley CP, Baumgarten RK. Use of an  
     oxygen concentrator linked to a  
     drawer vaporizer (letter), 826  
 Kirchhoff G, Stillwell R. Reinserting a  
     catheter into a single-use adapter: a  
     safe and cost-effective method  
     (letter), 826  
 Kirnö K, Kunimoto M, Lundin S, Elam M,  
     Wallin BG. Can galvanic skin  
     response be used as a quantitative  
     estimate of sympathetic nerve  
     activity in regional anesthesia?, 138  
 Kirvelä OA, Kanto JH. Clinical and  
     metabolic responses to different  
     types of premedication, 49  
 Kissin I, Brown PT, Johannson ML. Map  
     of contributions to *Anesthesiology*  
     and *Anesthesia and Analgesia* (letter),  
     233  
 Brown PT, Robinson CA, Bradley EL Jr.  
     Acute tolerance to the hypnotic  
     effect of morphine in rats, 619  
 Kiyama S. A simple test for scopolamine  
     mydriasis (letter, reply), 824  
     Transient anisocoria after intravenous  
     administration of butylscopolamine  
     (letter), 97  
 Klein DS, Schmidt RE Jr. Chronic  
     headache resulting from  
     postoperative supraorbital  
     neuralgia, 490  
 Klein SL, Leonard PF. Buzz 'em or burn  
     'em (letter), 358  
 Kleinman S, see Kao YJ  
 Klessig H, see Arndt GA  
 Knuth TE, Richards JR. Mainstem  
     bronchial obstruction secondary to  
     nasotracheal intubation: a case  
     report and review of the literature,  
     487  
 Koblin DD, see Sutton TS  
 Kochi T, Izumi Y, Isono S, Ide T,  
     Mizuguchi T. Breathing pattern and  
     occlusion pressure waveform in  
     humans anesthetized with  
     halothane or sevoflurane, 327  
 Kochs E, see Hoffman WE  
 Komanduri V, see Beebe DS  
 Komar WE, see Badner NH  
 Komatsu H, Ohara T, Nogaya J, Yokono  
     S, Ogli K. Subanesthetic  
     concentrations of volatile  
     anesthetics may enhance acquired  
     avoidance training in ddN mice, 295  
 Korttila K, see Lichtor JL  
 Korttila KT, see Aho MS  
 Kosarussavadi B, see Jacobs BR  
 Kramer GC, see Kien ND  
 Krechel SW. Manual of Complications  
     During Anesthesia by Nikolaus  
     Gravenstein, ed. (book review), 240  
 Krejcic TC, see Drasner K  
 Krishna G, see Moorthy SS  
 Kunimoto M, see Kirnö K  
 Lagerkranser M, see Stånge K  
 LaMantia KR, see Perrino AC Jr  
 Langton D, see Blake DW  
 Larijani GE, Gratz I, Afshar M, Minassian  
     S. Treatment of postoperative  
     nausea and vomiting with  
     ondansetron: a randomized, double-  
     blind comparison with placebo, 246  
 Larson MD. A simple test for scopolamine  
     mydriasis (letter), 824  
 Laster M, see Weiskopf RB  
 Laster MJ, Taheri S, Eger EI II, Liu J,  
     Rampil II, Dwyer R. Visceral losses  
     of desflurane, isoflurane, and  
     halothane in swine, 209  
     see Liu J  
 Lawson D. Gas Man, Understanding  
     Uptake and Distribution in  
     Anesthesia and Analgesia, 2nd ed.  
     by J. H. Philip (book review), 241  
     see Woods AM  
 Lea DE, see Dubois MY  
 LeDuc A, see Raffe MR

- Lee C. Neuromuscular "block" not "blockade" (letter), 669
- Lee E. Monitoring bilateral breath sounds (letter, reply), 828
- Of stethoscopes and stopcocks (letter), 98
- Lee O, Sommer RM. Pressure monitoring hose causes leak in anesthesia breathing circuit (letter), 365
- Lehtinen A-M, see Aho MS
- Lema MJ, see Bacon DR
- Lemoing J-P, see Boudreault D
- Le Normand Y, see Lepage J-YM
- Leonard PF, see Klein SL
- Leone BJ, see Spahn DR
- Lepage J-YM, Pinaud ML, Helias JH, Cozian AY, Le Normand Y, Souron RJ. Left ventricular performance during propofol or methohexitol anesthesia: isotopic and invasive cardiac monitoring, 3
- Letenier J, see Bernard J-M
- Levi E, see Loewinger J
- Ley SJ, Jones BR. Strength of continuous spinal catheters, 394
- Lhuissier CA, see O'Kelly B
- Liao BS, see King H-K
- Liao J-C, see Beebe DS
- Lichtor JL, Zaczyn J, Korttila K, Apfelbaum JL. Safety of alcohol after midazolam (letter, reply), 829
- Lien CA, Matteo RS, Ornstein E, Schwartz AE, Diaz J. Distribution, elimination, and action of vecuronium in the elderly, 39
- Lillehaug SL, Tinker JH. Why do "pure" vasodilators cause coronary steal when anesthetics don't (or seldom do)? (editorial), 681
- Lindeberg A, see Strömskag KE
- Lipkowski AW, see Silbert BS
- Litman RS, Keon TP, Campbell FW. Termination of supraventricular tachycardia with adenosine in a healthy child undergoing anesthesia, 665
- Littleford JA, see Patel LR
- Liu J, Lester MJ, Eger EI II, Taheri S. Sevoflurane breakdown in soda lime (letter, reply), 670
- see Lester MJ
- Lochner A, see Coetzee AA
- Lock RL, see Audenaert SM
- Lockhart SH
- see Cahalan MK
- see Weiskopf RB
- see Yasuda N
- Loewinger J, Friedmann-Neiger I, Cohen M, Levi E. Effects of atracurium and pancuronium on the oculocardiac reflex in children, 25
- Loubser PG. Action of thiopental in isoniazid-induced seizures: GABA augmentation or electroencephalographic suppression? (letter), 95
- Lu L, see Ferrante FM
- Lumb AB, Nunn JF. Respiratory function and ribcage contribution to ventilation in body positions commonly used during anesthesia, 422
- Lundin S, see Kirnö K
- Lunn JN. Recalled to Life. The Story of a Coma by Esther Goshen-Gottstein (book review), 240
- Mackenzie CF. Anesthesia and Musculoskeletal Disorders. Problems in Anesthesia, Volume 5, No. 1 by Anne C. P. Lui and Edward T. Crosby, eds. (book review), 371
- Macquin-Mavier I, see Bernard J-M
- Maier C, see Wulf H
- Mangar D, Gerson JL, Baggish MS, Camporesi EM. Serum levels of Hyskon during hysteroscopic procedures, 186
- Mani M, see Shantha TR
- March RJ, see Tuman KJ
- Marjic J, see Polic S
- Marks JD, see Hastings RH
- Martin RL, Soifer BE, Stevens WC. Ethical issues in anesthesia management of the do-not-resuscitate patient, 221
- Martyn J, see Hogue CW Jr
- Matjasko MJ, see Gershon RY
- Matsumiya N, Dohi S, Kimura T, Naito H. Reexpansion pulmonary edema after mediastinal tumor removal, 646
- Matsumura JS, Cole DJ, Schell RM, Wong MH. L-644,711, a novel anion transport inhibitor, increases isoflurane MAC in rats, 199
- Matteo RS
- see Lien CA
- see Schwartz AE
- Matthews M, see Gilbert TB
- Maves TJ, Gebhart GF. Analgesic synergy between intrathecal opioids and local anesthetics (letter), 365
- Mayer N, Zimpfer M, Steinbreithner K. Isoflurane impairs the function of ischemic myocardium in acutely but not in chronically instrumented dogs, 16
- Maze M, Virtanen R, Daunt D, Banks SJM, Stover EP, Feldman D. Effects of dexmedetomidine, a novel imidazole sedative-anesthetic agent, on adrenal steroidogenesis: in vivo and in vitro studies, 204
- Maze RI, see Bertrix L
- McCarthy RJ, see Tuman KJ
- McDonald JS, see Rattan AK
- McGoldrick K, see Jacobs BR
- McGrath BP, see Blake DW
- McKenzie I. URI or preoperative obstruction? (letter), 828
- McLeod ME, see Hartley EJ
- McRae RL, see Spahn DR
- Mehta MP, see Sum Ping ST
- Meistelman C, Plaud BA, Donati FA. Neuromuscular effects of succinylcholine on the vocal cords and adductor pollicis muscles, 278
- Mergens P, see Beebe DS
- Merriman T, see Abouleish E
- Messick JM Jr. Clinical Anesthesia in Neurosurgery by E. A. M. Frost, ed. (book review), 102
- Mick SA, see Fletcher JE
- Miguel R, Morse S, Murtagh R. Epidural air associated with multiradiculopathy, 92
- Miller RD. Comments by the editor-in-chief (letter), 234
- The changing of the guard (editorial), 1
- Milligan KR, see Carabine UA
- Milocco I, see Zäll S
- Minassian S, see Larijani GE
- Minor BG, see Strömskag KE
- Miodownik S, see Reinsel RA
- Mirow A, see Weinger MB
- Mizuguchi T, see Kochi T
- Mokriski BLK, see Gershon RY
- Montgomery CL, see Audenaert SM
- Moore JA, see Carabine UA
- Moorthy SS, Anagnostou JM, Dierdorf SF. A "new" brachial plexus block: some questions and objections (letter, reply), 239
- Krishna G, Dierdorf SF. Resistance to vecuronium in patients with cerebral palsy, 275
- Moran DH, Johnson MD. Continuous spinal anesthesia with hyperbaric and isobaric bupivacaine (letter, reply), 675
- Morgan P. Prevention of nitrous oxide-induced increases in endotracheal tube cuff pressure (letter), 232
- Morse S, see Miguel R
- Motin JP, see Viale JP
- Mullin V, see Rutter TW
- Murphy JL Jr. Endrate or amidate (letter), 237
- Murphy M. Opioids in Anesthesia II by F. G. Estafanow, ed. (book review), 101
- Murphy MR, see Fletcher JE
- Murtagh R, see Miguel R
- Myers KJ, see Schwartz AE
- Nagia AH, see Williams L
- Naito H, see Matsumiya N
- Najarian JS, see Beebe DS
- Nakazawa K, Taneyama C, Benson KT, Unruh GK, Goto H. Mixtures of sodium nitroprusside and

- trimethaphan for induction of hypotension, 59
- Naraghi M, see Campbell C
- Narchi P, see Benhamou D
- Naukam R, see Hyman SA
- Navedo AT, Wald A. Erroneous measurement with invasive monitoring of blood pressure (letter), 96
- Nessly ML, Bashein G. Methods comparison in clinical observational studies (letter), 830
- Nishikawa T, see Anzai Y
- Nogaya J, see Komatsu H
- Norden J, see Patel RI
- Norton RG, see Kao YJ
- Nunn JF, see Lumb AB
- Nydahl P-A, Philipson L, Axelsson K, Johansson J-E. Epidural anesthesia with 0.5% bupivacaine: influence of age on sensory and motor blockade, 780
- O'Connor CJ Jr. Anesthesia for Plastic and Reconstructive Surgery by A. R. Abadir and S. G. Humayun, eds. (book review), 371
- O'Connor TZ, see Jacobs BR
- Ogli K, see Komatsu H
- Ohara T, see Komatsu H
- Oka H, see Oshita S
- Okamura A, see Kemmotsu O
- O'Kelly B, Jayais P, Veroli P, Lhuissier CA, Coffey C. Dose requirements of vecuronium, pancuronium, and atracurium during orthotopic liver transplantation, 794
- Olglin J, Rosenberg H. Sensitivity and specificity of tests of malignant hyperthermia susceptibility (letter, reply), 233
- Olympio MA, see Prough DS
- Ono K, see Sato M
- Ornstein E  
see Lien CA  
see Schwartz AE  
see Young WL
- Osgood PF, see Silbert BS
- Oshita S, Oka H, Hiraoka I, Takeshita H. Halothane increases epinephrine threshold for the development of slow responses in isolated canine trabeculae, 449
- Ostapovich N, see Young WL
- Otsuka H, see Kemmotsu O
- Ozaki GT, see Brodsky JB
- Pace NL, East TD. Simultaneous comparison of intraarterial, oscillometric, and Finapres monitoring during anesthesia, 213
- Palahniuk RJ, see Beebe DS
- Panagopoulos G, see Shevde K
- Partridge BL, see Weinger MB
- Patel LR, Bose D, Littleford JA. Masseter muscle spasm in children (letter, reply), 362
- Patel RI, Hannallah RS, Norden J, Casey WF, Vergheze ST. Emergence airway complications in children: a comparison of tracheal extubation in awake and deeply anesthetized patients, 266
- Patel RV, see Tuman KJ
- Pauliussian R, Salem MR, Joseph NJ, Braverman B, Cohen HC, Crystal GJ, Heyman HJ. Hemodynamic responses to endotracheal extubation after coronary artery bypass grafting, 10
- Pearl RG. Mechanical Ventilation and Assisted Respiration: Past, Present, and Future by A. Grenvik, J. Downs, J. Räsanen, and R. Smith, eds. (book review), 833
- Perrino AC Jr, Fleming J, LaMantia KR. Transesophageal Doppler cardiac output monitoring: performance during aortic reconstructive surgery, 705
- Peterson N, see Weiskopf RB
- Peterson NA, see Cahalan MK
- Philipson L, see Nydahl P-A
- Pinaud M, see Bernard J-M
- Pinaud ML, see Lepage J-YM
- Pitkanen M, see Feldman HS
- Plaud BA, see Meistelman C
- Podesch DM, Sprague DH. Additional factor related to suction trauma (letter), 238
- Polic S, Bosnjak ZJ, Marijic J, Hoffmann RG, Kampine JP, Turner LA. Actions of halothane, isoflurane, and enflurane on the regional action potential characteristics of canine Purkinje fibers, 603
- Pommier CM, see Viale JP
- Poterack KA, Kampine JP, Schmeling WT. Effects of isoflurane, midazolam, and etomidate on cardiovascular responses to stimulation of central nervous system pressor sites in chronically instrumented cats, 64
- Prados W. Addition of low-dose bupivacaine to epidural fentanyl infusion (letter), 366
- Priehlipp RC, Zaloga GP. Life-threatening hypocalcemia after abdominal aortic aneurysm repair in patients with renal insufficiency, 638
- Prohovnik I, see Young WL
- Prough DS. Cerebral circulation and oxygen uptake parallels (letter, reply), 504
- Whitley JM, Olympio MA, Taylor CL, DeWitt DS. Hypertonic/hyperoncotic fluid resuscitation after hemorrhagic shock in dogs, 738
- Pruett CE, see Albin MS
- Prys-Roberts C, see Spencer EM
- Punt CD, van Neer PAFA, de Lange S. Pressure sores as a possible complication of epidural analgesia, 657
- Queen JS, see Woods AM
- Quest DO, see Young WL
- Racz GR. Chronic Pain. Volume 4, No. 4 of the Problems in Anesthesia Series by Bradford D. Hare and Perry G. Fine, eds. (book review), 100
- Raffe MR, LeDuc A. Administration of inhaled anesthesia with high-frequency oscillation: an in vitro study, 465
- Ramanathan J, Coleman P, Sibai B. Anesthetic modification of hemodynamic and neuroendocrine stress responses to cesarean delivery in women with severe preeclampsia, 772
- Ramanathan S, Khoo P, Arismendi J. Perioperative maternal and neonatal acid-base status and glucose metabolism in patients with insulin-dependent diabetes mellitus, 105
- Rampil JJ  
see Cahalan MK  
see Lesser MJ  
see Sutton TS  
see Weiskopf RB  
see Yasuda N
- Ramsay M, Roberts C. Epidural injection does cause an increase in CSF pressure (letter), 668
- Randel GL. Fiberoptics in Anesthesia. Volume 9, No. 1 of Anesthesiology Clinics of North America by James T. Roberts, eds. (book review), 833
- Rattan AK, McDonald JS, Tejwani GA. Differential effects of intrathecal midazolam on morphine-induced antinociception in the rat: role of spinal opioid receptors, 124
- Ravat FAM, see Viale JP
- Ravens U, see Himmel HM
- Reinsel RA, Veselis RA, Heino R, Miodownik S, Alagesan R, Bedford RF. Effect of midazolam on the auditory event-related potential: measures of selective attention, 612
- Reves JG, see Steele SM
- Reynolds PC, Antoine JA, Bettencourt J, Starck TW. Regional hypothermia affects somatosensory evoked potentials, 653
- Ribberink AA, see Kalkman CJ
- Richards JR, see Knuth TE

- Ricksten S-E, see Zäll S  
Rigler ML, see Drasner K  
Riopelle JM, see Campbell C  
Ritter RR, see Albin MS  
Roberts C, see Ramsay M  
Roberts JR, see Cooley DM  
Robinson CA, see Kissin I  
Rolf N, Coté CJ. Persistent cardiac arrhythmias in pediatric patients: effects of age, expired carbon dioxide values, depth of anesthesia, and airway management, 720  
Romanoff ME, Ellis JS Jr. Bupivacaine toxicity after stellate ganglion block (letter), 505  
Rosenberg AL, Gold MI. Catheter spinal anesthesia and cauda equina syndrome: an alternative view (letter), 368  
Rosenberg H, Shutack JG. Masseter muscle spasm in children (letter), 361  
see Olglin J  
Rosenblatt WH, Cioffi AM, Sinatra R, Saberski LR, Silverman DG. Metoclopramide: an analgesic adjunct to patient-controlled analgesia, 553  
Kharatian A. Capnography: never forget the false-positives! (letter), 509  
Rosenblum M, Weller RS, Conard PL, Falvey EA, Gross JB. Ibuprofen provides longer lasting analgesia than fentanyl after laparoscopic surgery, 255  
Rothenberg DM, see Spiess BD  
Rowe R. Management of a systemic carnitine deficiency (letter, reply), 673  
Rowe RW, Betts J, Free E. Perioperative management for laryngotracheal reconstruction, 483  
Ruskin KJ, Capan L. A method of introducing aerosolized medications into the anesthesia circuit (letter), 676  
Rutter TW. A "new" brachial plexus block: some questions and objections (letter), 238  
Mullin V. Pheochromocytoma in a patient with Eisenmenger's complex, 496  
Rybaczynski J, see Hartley EJ  
Saberski LR, see Rosenblatt WH  
Salem MR  
see Crystal GJ  
see Paulissian R  
Samii K  
see Bertrix L  
see Boudreault D  
Sarner JB, see Woelfel SK  
Sato M, Hoka S, Arimura H, Ono K, Yoshitake J. Effects of augmenting cardiac contractility, preload, and heart rate on cardiac output during enflurane anesthesia, 590  
Satz AK, Stoelting RK, Gibbs PS. Intraoperative pulmonary edema in a patient being treated with amiodarone, 821  
Savarese JJ, see Kestenbaum A  
Savino JS, see Weiss SJ  
Schappert T, see Himmel HM  
Scheinin H, see Aho MS  
Schelle HA, see Wulf H  
Schell RM, Shah PM, Applegate RL II, Shah PM, Schmidt CA. Remote synergy detected by biplane transesophageal echocardiography during myocardial revascularization without cardiopulmonary bypass, 642  
see Matsumura JS  
Schlairet TJ, see Eisenach JC  
Schmeling WT, see Poterack KA  
Schmid ER, see Weiss BM  
Schmidt CA, see Schell RM  
Schmidt RE Jr, see Klein DS  
Scholnick FT, see Drasner K  
Schwartz AE, Matteo RS, Ornstein E, Young WL, Myers KJ. Pharmacokinetics of sufentanil in obese patients, 790  
see Lien CA  
Schwartz N. Monitoring bilateral breath sounds (letter), 824  
Scott CR, see Sharar SR  
Sebel PS, see Fletcher JE  
Segil L, see Hoffman WE  
Seifen AB, Kennedy RH, Seifen E. Effects of volatile anesthetics on response to norepinephrine and acetylcholine in guinea pig atria, 304  
Seifen E, see Seifen AB  
Sessler DL. Sweating threshold during isoflurane anesthesia in humans, 300  
see Hynson JM  
Shaffer M, see Gilbert TB  
Shah PM, see Schell RM  
Shantha TR. Causalgia induced by telephone-mediated lightning electrical injury and treated by interpleural block (letter), 507  
Mani M. A simple method to retrieve irretrievable epidural catheters (letter), 508  
Sharar SR, Haberkern CM, Jack R, Scott CR. Anesthetic management of a child with methylmalonyl-coenzyme A mutase deficiency, 499  
Shevde K, Panagopoulos G. A survey of 800 patients' knowledge, attitudes, and concerns regarding anesthesia, 190  
Shively R, see Smith I  
Shutack JG, see Rosenberg H  
Sibai B, see Ramanathan J  
Silbert BS, Lipkowski AW, Cepeda MS, Szyfelbein SK, Osgood PF, Carr DB. Enhanced potency of receptor-selective opioids after acute burn injury, 427  
Silverman DG  
see Brull SJ  
see Graf G  
see Jacobs BR  
see Rosenblatt WH  
Sinatra R  
see Graf G  
see Rosenblatt WH  
Slaughter TF, see Steele SM  
Sloan TB, Kaye CI. Rumination risk of aspiration of gastric contents in the Prader-Willi syndrome, 492  
Slucky AV, see Bevacqua BK  
Smith CA, see Fletcher JE  
Smith DW, see Hyman SA  
Smith I. More about the esophageal detector (letter, reply), 672  
Van Hemelrijck J, White PF, Shively R. Effects of local anesthesia on recovery after outpatient arthroscopy, 536  
Van Hemelrijck J, White PF. Efficacy of esmolol versus alfentanil as a supplement to propofol-nitrous oxide anesthesia, 540  
Smith LR, see Spahn DR  
So SKS, see Beebe DS  
Soifer BE, see Martin RL  
Sollevi A, see Stångé K  
Sommer RM, see Lee O  
Sosis M, Dillon F. Reflection of CO<sub>2</sub> laser radiation from laser-resistant endotracheal tubes, 338  
Smith LR, see Spahn DR  
So SKS, see Beebe DS  
Soifer BE, see Martin RL  
Sollevi A, see Stångé K  
Sommer RM, see Lee O  
Sosis M, Dillon F. Reflection of CO<sub>2</sub> laser radiation from laser-resistant endotracheal tubes, 338  
Sosis MB, Braverman B, Ivankovich AD. A method for withholding sedatives from patients before obtaining surgical consent (letter), 361  
Souron RJ, see Lepage J-Y  
Spahn DR, Smith LR, Hu W-c, McRae RL, Leone BJ. Effects of cardiopulmonary bypass and cardioplegia on regional and global cardiac actions of halothane in dogs, 513  
Spencer EM, Willatts SM, Prys-Roberts C. Plasma inorganic fluoride concentrations during and after prolonged (>24 h) isoflurane sedation: effect on renal function, 731  
Spiess BD. Perioperative Autologous Transfusion by Linda Stehling, ed. (book review), 511  
Rothenberg DM, Buckley S. Complete airway obstruction of armored endotracheal tubes (letter), 95  
Sprague DH, see Podeschi DM

- Sprung J, Cheng EY. Near mishap in drug administration due to similarity between drug packaging (letter), 508
- Stånge K, Lagerkranser M, Sollevi A. Nitroprusside-induced hypotension and cerebrovascular autoregulation in the anesthetized pig, 745
- Stanton-Hicks M. Anesthesiology and Pain Management by T. H. Stanley, M. A. Ashburn, and P. G. Fine, eds. (book review), 677
- Starck TW, see Reynolds PC
- Steele SM, Slaughter TF, Greenberg CS, Reves JG. Epidural anesthesia and analgesia: implications for perioperative coagulability (editorial), 683
- Stehling L. Advances in Anesthesia. Volume 8 by R. K. Stoelting, P. G. Barash, and T. J. Gallagher, eds. (book review), 240
- Steinbereithner K, see Mayer N
- Stevens WC, see Martin RL
- Stillwell R, see Kirchhoff G
- St-Louis P, see Hartley EJ
- Stoelting RK, see Satz AK
- Stone B, see Audenaert SM
- Stover EP, see Maze M
- Stride PC. A potential hazard associated with misunderstanding of pulse oximetric readings (letter), 97
- Prevention of tachycardia and hypertension associated with tracheal intubation (letter), 502
- Strömskag KE, Minor BG, Lindeberg A. Comparison of 40 milliliters of 0.25% intrapleural bupivacaine with epinephrine with 20 milliliters of 0.5% intrapleural bupivacaine with epinephrine after cholecystectomy, 397
- Strum DP, Eger EI II, Unadkat JD, Johnson BH, Carpenter RL. Age affects the pharmacokinetics of inhaled anesthetics in humans, 310
- Sum Ping ST, Mehta MP, Symreng T. Reliability of capnography in identifying esophageal intubation with carbonated beverage or antacid in the stomach, 333
- Sundberg A. Hyperacusis after spinal anesthesia (letter, reply), 506
- Suresh D. Do you think you could make yourself vomit? (letter), 360
- Sutton TS, Koblin DD, Gruenke LD, Weiskopf RB, Rampil IJ, Waskell L, Eger EI II. Fluoride metabolites after prolonged exposure of volunteers and patients to desflurane, 180
- Sweeney MF, see Beebe DS
- Swift CA, see Jacobs BR
- Symreng T, see Sum Ping ST
- Szyfbeltein SK, see Silbert BS
- Taheri S  
see Lesser MJ  
see Liu J
- Takeshita H, see Oshita S
- Taneyama C, see Nakazawa K
- Taylor CL, see Prough DS
- Teague PD, see Williams L
- Tecson ME, see Baum VC
- Tejwani GA, see Rattan AK
- Thijs LG, see Groeneveld ABJ
- Thomas C, see Hoffman WE
- Timour Q, see Bertrix L
- Tinker JH, see Lillehaug SL
- Trigg L, see Blake DW
- Tuman KJ, McCarthy RJ, March RJ, DeLaria GA, Patel RV, Ivankovich AD. Effects of epidural anesthesia and analgesia on coagulation and outcome after major vascular surgery, 696
- Tuohy SE, see Beebe DS
- Turner LA, see Polic S
- Ueda M, see Kemmotsu O
- Unadkat JD, see Strum DP
- Unruh GK, see Nakazawa K
- Van Aken H, see Brüssel T
- van der Spek AFL. Triggering agents continued after masseter spasm: there is proof in this pudding (letter), 364
- Van Hemelrijck J, see Smith I
- van Neer PAFA, see Punt CD
- Veillette Y, see Benhamou D
- Verborgh C, Claeys M-A, Camu F. Onset of epidural blockade after plain or alkalinized 0.5% bupivacaine, 401
- Vergheese ST, see Patel RI
- Vermeij CG, see Groeneveld ABJ
- Veroli P, see O'Kelly B
- Veselis RA, see Reinsel RA
- Viale JP, Annat GJ, Ravat FAM, Pommier CM, Brudon JR, Desuzinges CJ, Bertrand OM, Motin JP. Oxygen uptake and mixed venous oxygen saturation during aortic surgery and the first three postoperative hours, 530
- Vinik HR, see Waring PH
- Virtanen R, see Maze M
- Viswanathan S, see Campbell C
- Vourgos P, see Hogue CW Jr
- Wald A, see Navedo AT
- Waldman SD. Introduction to Dental Local Anesthesia by Hans Evers and Glenn Haegerstam, eds. (book review), 372
- Wallin BG, see Kirnö K
- Waring PH, Vinik HR. A potential complication of the Patil-Syracuse endoscopy mask (letter), 668
- Warner LO, see Cartabuke RS
- Waskell L, see Sutton TS
- Watanabe S, Yamaguchi H, Ishizawa Y. Level of spinal anesthesia can be predicted by the cerebrospinal fluid pressure difference between full-flexed and non-full-flexed lateral position, 391
- Way D, see Blake DW
- Weinger MB, Partridge BL, Hauger R, Mirow A, Brown M. Prevention of the cardiovascular and neuroendocrine response to electroconvulsive therapy: II. Effects of pretreatment regimens on catecholamines, ACTH, vasopressin, and cortisol, 563
- Partridge BL, Hauger R, Mirow A. Prevention of the cardiovascular and neuroendocrine response to electroconvulsive therapy: I. Effectiveness of pretreatment regimens on hemodynamics, 556
- Weiskopf RB, Cahalan MK, Eger EI II, Yasuda N, Rampil IJ, Ionescu P, Lockhart SH, Johnson BH, Freire B, Kelley S. Cardiovascular actions of desflurane in normocarbic volunteers, 143
- Cahalan MK, Ionescu P, Eger EI II, Yasuda N, Lockhart SH, Rampil IJ, Laster M, Freire B, Peterson N. Cardiovascular actions of desflurane with and without nitrous oxide during spontaneous ventilation in humans, 165
- see Cahalan MK
- see Sutton TS
- see Yasuda N
- Weiss BM, Schmid ER, Gattiker RI. Comparison of nalbuphine and fentanyl anesthesia for coronary artery bypass surgery: hemodynamics, hormonal response, and postoperative respiratory depression, 521
- Weiss SJ, Cheung AT, Savino JS. Intraoperative Use of Echocardiography by Norbert P. de Brujin and Fiona M. Clements, eds. (book review), 835
- Weller RS, see Rosenblum M
- Werner C, see Hoffman WE
- White DA, see Kien ND
- White PF  
see Bodner M  
see Smith I
- Whitley JM, see Prough DS
- Wildsmith JAW. Catheter spinal anesthesia and cauda equina syndrome: an alternative view (letter), 368
- Willatts SM, see Spencer EM

Williams L, Teague PD, Nagia AH.  
Foreign body from a Patil-Syracuse  
mask (letter), 359

Winter DC, see Kemmotsu O

Woelfel SK, Dong M-L, Brandom BW,  
Sarner JB, Cook DR. Vecuronium  
infusion requirements in children  
during halothane-narcotic-nitrous  
oxide, isoflurane-narcotic-nitrous  
oxide, and narcotic-nitrous oxide  
anesthesia, 33

Wong MH, see Matsumura JS

Woods AM, Queen JS, Lawson D.  
Valsalva maneuver in obstetrics: the  
influence of peripheral circulatory  
changes on function of the pulse  
oximeter, 765

Wooten DJ, see King H-K

Wulf H, Maier C, Schele HA. Bupivacaine  
toxicity after stellate ganglion block  
(letter, reply), 505

Yamaguchi H, see Watanabe S

Yamamura T, see Kemmotsu O

Yassin K, Gibbons JJ. A hidden leak in the  
circle system (letter), 236

Yasuda N, Weiskopf RB, Cahalan MK,  
Ionescu P, Caldwell JE, Eger EI II,  
Rampil IJ, Lockhart SH. Does  
desflurane modify circulatory  
responses to stimulation in  
humans?, 175  
see Cahalan MK  
see Weiskopf RB

Yelich SJ, see Drasner K

Yokono S, see Komatsu H

Yoshitake J, see Sato M

Young WL, Prohovnik I, Correll JW,  
Ostapkovich N, Ornstein E, Quest  
DO. A comparison of cerebral blood  
flow reactivity to CO<sub>2</sub> during  
halothane versus isoflurane  
anesthesia for carotid  
endarterectomy, 416  
see Schwartz AE

Zacny J, see Lichor JL

Zäll S, Milocco I, Ricksten S-E. Effects of  
adenosine on myocardial blood flow  
and metabolism after coronary  
artery bypass surgery, 689

Zaloga GP, see Prielipp RC

Zhang PY, see Asher EF

Zimpfer M, see Mayer N

## Subject Index

**Abdominal aorta aneurysm**, see Surgery, aneurysm

**Acid-base equilibrium**

- acidosis
  - lactic, during hypoperfusion with incremental positive end-expiratory pressure, 576
  - metabolic, during hypoperfusion with incremental positive end-expiratory pressure, 576
  - respiratory, during hypoperfusion with incremental positive end-expiratory pressure, 576
- bicarbonate
  - alkalinization of 0.5% bupivacaine, epidural blockade effects, 401
- maternal and neonatal
  - insulin-dependent diabetes mellitus and, regional anesthesia effects on, 105

**Acidemia**, see Complications

**Acidosis**, see Acid-base equilibrium

**ACTH**, see Hormones, adrenocorticotrophic

**Adapters**, see Equipment

**Adductor pollicis muscle**, see Muscle, skeletal

**Adenosine**

- see Anesthetic techniques, hypotensive
- see Sympathetic nervous system, pharmacology

**Adrenergic agonists**, see Receptors, adrenergic

**Adrenocorticotrophic hormone**, see Hormones, adrenocorticotrophic

**Aerosol cannister**, see Equipment

**Age factors**

- bupivacaine influence on sensory and motor blockade, 780
- elderly
  - vecuronium in, 39
- pharmacokinetics of inhaled anesthetics, 310

**Air embolism**, see Embolism

**Air injection**, see Anesthetic techniques, epidural

**Airway**

- maintenance
  - chin-support device, alternative (letter), 235
- obstruction
  - armored endotracheal tubes and (letter), 95

**Airway equipment**, see Equipment

**Alcohol**

- midazolam interaction with (letter), 829

**Alfentanil**, see Analgesics

**Amidate**, see Anesthetics, intravenous, etomidate

**Amino acids**, see Protein

**Amiodarone**, see Heart, arrhythmias

**Analgesics**

- alfentanil
  - as supplement to propofol-N<sub>2</sub>O anesthesia, esmolol comparison with, 540
- biphalin
  - potency, after acute burn injury, 427
- diclofenac
  - after laparoscopic tubal ligation, 112
- fentanyl
  - bupivacaine and (letters), 365, 366
  - for coronary artery bypass, nalbuphine compared to, 521
  - epidural, continuous or patient-controlled, epidural bupivacaine and, 132
  - laparoscopic surgery, compared to ibuprofen, 255
- ibuprofen
  - laparoscopic surgery, compared to fentanyl, 255
- ketorolac
  - bleeding diathesis and (letter), 235
- morphine
  - antinociception, intrathecal midazolam effects on, 124
  - epidural, effects of prior anesthetic solution on, 119
  - hypnotic effects, tolerance to, 619
  - potency, after acute burn injury, 427
- nalbuphine
  - for coronary artery bypass, fentanyl compared to, 521
- narcotics
  - spinal, 226
- opioids
  - midazolam interaction with, 124
  - oxycodone
    - after laparoscopic tubal ligation, 112
  - sufentanil
    - epidural, postoperative analgesia, dose-response, gynecologic surgery and, 405
    - pharmacokinetics, in obese patient, 790
- U50488H
  - potency, after acute burn injury, 427

**Anesthesia**

- cardiovascular
  - desflurane effects, in normocapnic volunteers, 143
  - desflurane effects, nitrous oxide and, 157, 165
  - nitrous oxide effects, desflurane and, 157, 165

pulmonary edema, amiodarone and, 821

electroconvulsive therapy

- cardiovascular and neuroendocrine response prevention, 556, 563

evaluation

- preoperative, 190

neurosurgical

- pediatric, scalp infiltration with bupivacaine, 29

obstetric

- bupivacaine, hyperbaric and isobaric, continuous spinal anesthesia with (letter), 674, 675
- cesarean section, morphine, epidural, analgesia and side effects, 119
- cesarean section, morphine, epidural, prior anesthetic solution effects on, 119
- cesarean section, perioperative maternal and neonatal acid-base status and glucose metabolism in insulin-dependent diabetes mellitus, 105
- cesarean section, preeclampsia, modification of hemodynamic and neuroendocrine stress responses, 772
- induction of vomiting (letter), 360
- oral intake during parturition (letter), 673

patient-controlled analgesia, epidural, demand dosing, 547

patient-controlled analgesia, metoclopramide as adjunct to, 553

Valsalva maneuver, pulse oximeter performance and, 765

ophthalmologic

- anisocoria, butylscopolamine and (letter), 97
- oculocardiac reflex, atracurium, pancuronium effects on, in children, 25
- pilocarpine, pupil constriction and (letter), 824
- scopolamine mydriasis (letter), 824

outpatient

- bupivacaine, arthroscopy
  - postoperative pain effects, 536
- gastric fluid acidity, ranitidine effects, 787
- laparoscopy, nausea and vomiting after, treatment, 250

preoperative anxiety control, temazepam, clonidine, timolol comparisons, 633

pediatric

- cardiac arrhythmias, age, hypercarbia,

anesthetic depth, and airway management, 720  
cardiac dysrhythmias, oximetry and capnography and (editorial), 686  
kidney transplantation, with adult kidney, anesthetic management of, 725  
masseter muscle spasm (letter), 361  
methylmalonyl-coenzyme A mutase deficiency, 499  
neurosurgical, scalp infiltration with bupivacaine, 29  
ophthalmologic, oculocardiac reflex, atracurium, pancuronium effects on, 25  
premedication, glycopyrrolate, atropine, halothane cardiovascular depression effects and, 271  
supraventricular tachycardia termination with adenosine, 864  
tracheal intubation, retrograde-assisted fiberoptic, 660  
upper respiratory infection, misclassification (letter), 828  
vecuronium requirements during halothane-narcotic-nitrous oxide, isoflurane-narcotic-nitrous oxide, narcotic-nitrous oxide anesthesia, 33  
thoracic mediastinal tumor removal, reexpansion pulmonary edema after, 646  
*Anesthesia & Analgesia*, see Publications  
**Anesthesia machines**, see Equipment, machines  
**Anesthetic techniques**  
endobronchial left-double-lumen tube, depth of placement, 856  
pulmonary shunt, hypoxic pulmonary vasoconstriction during one-lung ventilation in patent ductus arteriosus and (letter), 358  
endotracheal aerosol cannister for (letter), 675  
epidural air injection associated with multiradicular syndrome, 92  
bupivacaine, onset of blockade after plain or alkalinized 0.5%, 401  
bupivacaine, sensory and motor blockade, age influences on, 780  
cerebrospinal fluid pressure and (letter), 668  
cesarean section, perioperative maternal and neonatal acid-base status and glucose metabolism in insulin-dependent diabetes mellitus, 105  
cesarean section, preeclampsia, hemodynamic and neuroendocrine stress responses effects, 772  
complications, anterior spinal artery

syndrome in pregnant diabetic scleredema patient, 90  
morphine, prior anesthetic solution effects on, 119  
patient-controlled analgesia, fentanyl, epidural bupivacaine compared to, 132  
patient-controlled analgesia, obstetric, demand dosing, 547  
perioperative coagulability and (editorial), 683  
pressure sores as complication of, 657  
sufentanil, postoperative analgesia, dose-response in gynecologic surgery, 405  
vascular surgery, coagulation and outcome effects, 696  
extubation  
endotracheal, hemodynamic responses to, after coronary artery bypass grafting, 10  
pediatric, airway complications, 266  
hypotension  
adenosine, coronary steal and (editorial), 681  
adenosine, myocardial blood flow and metabolism effects, after coronary artery bypass surgery, 689  
nicardipine, 341  
nitroprusside, 341  
nitroprusside, cerebrovascular autoregulation and, 745  
nitroprusside, trimethaphan and, for induction, 59  
trimethaphan, for induction, 59  
inhalation  
cesarean section, preeclampsia, hemodynamic and neuroendocrine stress responses effects, 772  
intravenous  
cesarean section, preeclampsia, hemodynamic and neuroendocrine stress responses effects, 772  
tubing obstruction (letter), 98  
regional  
brachial plexus block, supraclavicular (letter), 239  
digital nerve block, pulse oximeter signal detection with, 815  
infiltration, scalp, bupivacaine, pediatric, 29  
interpleural, bupivacaine, comparison of 40 milliliters 0.25% with epinephrine and 20 milliliters 0.5% with epinephrine, 397  
interpleural, causalgia induced by telephone-mediated lightning electrical injury treatment with (letter), 507  
stellate ganglion block, bupivacaine toxicity after (letter), 505  
supraorbital nerve block, headache caused by, 490

sympathetic nerve activity in, galvanic skin response and, 138  
spinal catheters, continuous, aseptic closed system for injections through (letter), 824  
catheters, continuous, strength, 394  
cuada equina syndrome and (letter), 367  
epinephrine wash (letter), 673  
heart rate responses to body tilt during, 385  
hyperacusis after (letter), 506  
intrathecal, subcutaneously implanted pumps for, 226  
levels, cerebrospinal fluid pressure difference between full-flexed and non-full-flexed lateral position and, 391  
obstetric, continuous, bupivacaine, hyperbaric and isobaric (letter), 674, 675  
**Anesthetics, gases**  
nitrous oxide  
desflurane, isoflurane psychomotor performance effects and, 260  
desflurane cardiovascular actions and, 143, 175  
desflurane circulatory responses to stimulation effects and, 175  
endotracheal tube cuff pressure and (letter), 99  
endotracheal tube cuff pressure and, increases, prevention of (letter), 232  
hemodynamic effects, desflurane and, 157  
pediatric, methylmalonyl-coenzyme A mutase deficiency, 499  
**Anesthetics, intravenous**  
etomidate  
cardiovascular responses to stimulation of central nervous system pressor sites effects, 64  
dexmedetomidine, adrenal steroidogenesis effects, 204  
Endrate or Amidate (letter), 237  
fentanyl  
asystole after, 818  
supplement to general anesthesia, octenitam compared to, 622  
ketamine  
transsarcolemmal calcium entry in myocardium effects, 804  
methohexitol  
left ventricular performance and, 3  
octenitam  
supplement to general anesthesia, fentanyl compared to, 622  
propofol  
asystole after, 818  
esmolol, alfentanil supplementation of, 540  
left ventricular performance and, 3

- malignant hyperthermia and (letter), 359
- thiopental**  
desflurane, isoflurane psychomotor performance effects and, 260
- isoniazid-induced seizure effects (letter), 95
- Anesthetics, local**  
bupivacaine  
arthroscopy, postoperative pain effects, 536
- epidural, continuous, postoperative analgesia, epidural fentanyl compared to, 132
- epidural, onset after plain or alkalinized 0.5%, 401
- fentanyl analgesia effects (letters), 365, 366
- hyperbaric and isobaric, obstetric, continuous spinal anesthesia with (letter), 674, 675
- interpleural, comparison of 40 milliliters of 0.25% with epinephrine with 20 milliliters of 0.5% with epinephrine after cholecystectomy, 397
- motor blockade, isometric force, EMG, age influences on, 780
- scalp infiltration in pediatric brain surgery, 29
- toxicity, after stellate ganglion block (letter), 505
- toxicity, systemic, treatment, 373
- ventricular contractile force and intraventricular conduction, interaction with halothane, in pediatric patients, 434
- 2-chloroprocaine**  
epidural, back pain after, 232
- morphine analgesia and side effects and, 119
- lidocaine**  
alkalinization, intradermal anesthesia pain and, 469
- hemodynamic responses to endotracheal extubation after coronary artery bypass grafting effects, 10
- ropivacaine**  
systemic toxicity treatment, 373
- Anesthetics, volatile**  
**desflurane**  
cardiovascular actions, 143
- cardiovascular actions, nitrous oxide and, 165
- circulatory responses to stimulation effects, nitrous oxide and, 175
- hemodynamic effects, nitrous oxide and, 157
- metabolism, fluoride metabolite effects, 180
- pharmacokinetics, 209
- psychomotor performance effects, compared to isoflurane, 260
- toxicity, in guinea pig liver slices (letter), 830
- visceral losses of, 209
- isoflurane**  
atrial response to norepinephrine and acetylcholine effects, 304
- avoidance training and, 295
- cardiac contractility, preload, and heart rate augmentation, cardiac output effects and, 590
- pharmacokinetics, age effects on, 310
- Purkinje fiber action potential effects, 603
- halothane**  
administration with high-frequency oscillation, 465
- arteriole vasodilation effects, serotonin and, 583
- atrial response to norepinephrine and acetylcholine effects, 304
- avoidance training and, 295
- breathing pattern and occlusion pressure waveform effects, 327
- cardiovascular effects, chronic heart failure and enalaprilat treatment and, 441
- carotid endarterectomy, cerebral blood flow reactivity to carbon dioxide, versus isoflurane
- cerebral blood flow, metabolism, cerebrovascular autoregulation effects, 758
- contractile performance effects, phosphodiesterase inhibitors and, 76
- epinephrine threshold for development of slow responses in trabeculae effects, 449
- left ventricular function effects, cardiopulmonary bypass and cardioplegia and, 513
- pediatric, cardiac arrhythmias and, 720
- pediatric, ventricular contractile force and intraventricular conduction, interaction with bupivacaine, 434
- pharmacokinetics, 209
- pharmacokinetics, age effects on, 310
- protective properties in ischemic heart, 711
- Purkinje fiber action potential effects, 603
- responses to hypoxia effects, 319
- visceral losses of, 209
- isoflurane**  
atrial response to norepinephrine and acetylcholine effects, 304
- avoidance training and, 295
- biotransformation, sevoflurane compared to (letter), 670
- cardiovascular effects, chronic heart failure and enalaprilat treatment and, 441
- cardiovascular responses to stimulation of central nervous system pressor sites effects, 64
- carotid endarterectomy, cerebral blood flow reactivity to carbon dioxide, versus halothane, 416
- cerebral autoregulation effects, 753
- contractile performance effects, phosphodiesterase inhibitors and, 76
- degradation, anesthesia circuit temperature and (letter), 670
- ischemic myocardium effects, 16
- MAC, L-644,711 effects on, 199
- motor evoked responses to transcranial electrical stimulation effects, during nitrous oxide/opioid anesthesia, 410
- pharmacokinetics, 209
- pharmacokinetics, age effects on, 310
- plasma inorganic fluoride levels effects, renal function and, 731
- psychomotor performance effects, compared to desflurane, 260
- Purkinje fiber action potential effects, 603
- sweating threshold effects on, 300
- toxicity, in guinea pig liver slices (letter), 830
- visceral losses of, 209
- methoxyflurane**  
pharmacokinetics, age effects on, 310
- sevoflurane**  
biotransformation, isoflurane compared to (letter), 670
- breathing pattern and occlusion pressure waveform effects, 327
- degradation, anesthesia circuit temperature and (letter), 670
- Aneurysm, see Surgery, aneurysm**
- Angiotensin converting enzymes, see Enzymes**
- Anisocoria, see Eye**
- Antacids, see Gastrointestinal tract**
- Antagonists, narcotic**  
naloxone  
displacement by morphine, 124
- Anterior spinal artery syndrome, see Spinal cord**
- Antidiuretic hormone, see Hormones**
- Antiemetics, see Vomiting**
- Aortic aneurysm, see Surgery, aneurysm**
- Arrhythmia, see Heart**
- Arterioles, see Microcirculation**
- Arthroscopy, see Pain, postoperative**
- Aspiration, see Gastrointestinal tract, stomach**
- Aspiration pneumonitis, see Complications**
- Asystole, see Heart**
- Atracurium, see Neuromuscular relaxants**
- Atropine, see Premedication**

- Attention**, see Recovery
- Autoregulation**, see Brain
- Avoidance training**, see Brain
- Back pain**, see Pain
- Baroreceptors**, see Receptors, pressoreceptors
- Benzodiazepines**, see Hypnotics
- Biotransformation, drug**
- isoflurane, 731
  - sevoflurane compared to (letter), 670
  - sevoflurane
  - isoflurane compared to (letter), 670
- Biphalin**, see Analgesics
- Blood**
- coagulation
  - epidural anesthesia and analgesia and, 696
  - epidural anesthesia and analgesia and (editorial), 683
  - glucose
    - clonidine effects on, 460  - volume
    - hypoxia effects on, halothane modification of, 319
- Blood gas monitors**, see Monitoring
- Blood pressure**
- baroreceptor reflexes
    - stimulation, isoflurane, midazolam, etomidate effects on, 64
  - hypertension
    - nalbuphine and fentanyl for coronary artery bypass comparisons in, 521
    - tracheal intubation-associated, prevention of (letter), 502
  - hypotension
    - after abdominal aorta aneurysm repair in renal insufficiency patient, 638
    - caused by rapid hypertonic saline infusion, 597
- measurement
- intraarterial, oscillometric, Finapres, 213
  - invasive, erroneous measurement with (letter), 96
- monitoring
- tonometry, noninvasive, in controlled hypotension, 54
- Book reviews**
- Anesthesia and Musculoskeletal Disorders. Problems in Anesthesia, Volume 5, No. 1 (Lui ACP, Crosby ET) [Mackenzie CF], 371
  - Anesthesia for Ambulatory Surgery (Wetchler BV) [Bogetz MS], 101
  - Anesthesia for Plastic and Reconstructive Surgery (Abadir AR, Humayun SG) [O'Connor CJ Jr], 371
  - Anesthesiology and Pain Management (Stanley TH, Ashburn MA, Fine PG) [Stanton-Hicks MJ], 677
  - Anesthetic and Obstetrical Management of High Risk Pregnancy (Datta S) [Joyce TH III], 103
- Chronic Pain. Problems in Anesthesia Series**, Volume 4, No. 4, December 1990 (Hare BD, Fine PG) [Racz GR], 100
- Clinical Anesthesia in Neurosurgery** (Frost EAM) [Messick JM Jr], 102
- Fiberoptics in Anesthesia**
- Anesthesiology Clinics of North America, Volume 9, No. 1 (Roberts JT) [Randel GI], 833
- Gas Man, Understanding, Uptake and Distribution in Anesthesia and Analgesia** (Philip JH) [Lawson DJ] [Gevirtz CM], 241
- Improving Anesthesia Outcome** (Eichhorn JH) [Gevirtz CM], 835
- Interdisciplinary Pain Management.** International Anesthesiology Clinics, Volume 29, No. 1 (Lebowitz PW) [Kestenbaum A, Savarese JJ], 677
- Intraoperative Use of Echocardiography** (de Brujin NP, Clements FM) [Weiss SJ, Cheung AT, Savino JS], 835
- Introduction to Dental Local Anesthesia** (Evers H, Haegerstrom G) [Waldman SD], 372
- Manual of Anesthesia and the Medically Compromised Patient** (Cheng EY, Kay J) [Guarnieri DM], 512
- Manual of Complications During Anesthesia** (Gravenstein N) [Krechel SW], 240
- Mechanical Ventilation and Assisted Respiration: Past, Present, and Future** (Grenvik A, Downs J, Räsänen J, Smith R) [Pearl RG], 833
- Opioids in Anesthesia II** (Estafanow FG) [Murphy MJ], 101
- Pediatric Anesthesia Handbook, The** (Bell C, Hughes CW, Oh TH) [Birmingham PK], 834
- Perioperative Autologous Transfusion** (Stehling L) [Spiess BD], 511
- Preanesthetic Assessment. Anesthesia Clinics of North America**, Volume 8, No. 4 (Frost EAM) [Antebi ME], 511
- Principles of Transfusion Medicine** (Rossi EC, Simon TL, Moss GS) [Ellison NJ], 241
- Problems in Respiratory Care: Clinical Applications of Hyperbaric Oxygen** (Moon RE, Camporesi EM) [Eckenhoff RG], 678
- Recalled to Life. The Story of a Coma** (Goshen-Gotten E) [Lunn JN], 240
- Studies of Narcosis** (Overton CE) [Greene NM], 102
- Books received**, 104, 242, 372, 512, 679, 835
- Brachial plexus block**, see Anesthetic techniques, regional
- Bradycardia**, see Heart, arrhythmia
- Brain**
- autoregulation
    - halothane effects, 758
- isoflurane effects, 753
- nitroprusside effects, 745
- avoidance training
- volatile anesthetics effects on, 295
- blood flow
- cerebrovascular reactivity to carbon dioxide, during halothane versus isoflurane anesthesia, 436
  - halothane effects on, 758
  - nitroprusside effects on, 745
  - oxygen uptake and (letter), 504
- convulsions
- isoniazid-induced, thiopental action in (letter), 95
- hypothalamus
- stimulation, cardiovascular responses to, isoflurane, midazolam, etomidate effects on, 64
- ischemia
- incomplete, clonidine effects on plasma catecholamines and, 460
  - oxygen consumption
    - halothane effects on, 758
- reticular formation
- stimulation, cardiovascular responses to, isoflurane, midazolam, etomidate effects on, 64
- Breath sounds**, see Monitoring
- Bronchial obstruction**, see Complications
- Bronchoscopes**, see Equipment
- Bronchospasm**
- see Complications
  - see Lung
- Bupivacaine**
- see Anesthetic techniques, epidural
  - see Anesthetics, local
- Burns**, see Complications
- Butylscopolamine**, see Premedication
- Capnography**, see Carbon dioxide, monitoring
- Carbon dioxide**
- end-tidal, cardiac output and, 808
  - hypercarbia
    - pediatric cardiac arrhythmias and, 720
  - monitoring
    - capnography, cardiac arrhythmias in pediatric patients and, 710
    - capnography, cardiac dysrhythmias in pediatric patients and (editorial), 868
    - capnography, false-positives (letter), 509, 510
  - identification of esophageal intubation with carbonated beverages or antacid in stomach, 333
- Carbon dioxide laser surgery**, see Surgery, laser, CO<sub>2</sub>
- Cardiac**, see Heart
- Cardiac output**
- see Heart
  - see Measurement techniques

- see Monitoring
- Cardiopulmonary bypass**, see Surgery, cardiovascular
- Cardiopulmonary resuscitation**, see Ventilation, artificial
- Cardiovascular anesthesia**, see Anesthesia
- Cardiovascular surgery**, see Surgery
- Carnitine deficiency**, see Complications
- Carotid endarterectomy**, see Surgery
- Catecholamines**, see Sympathetic nervous system
- Catheters**, see Equipment
- Cauda equina syndrome**, see Complications
- Causalgia**, see Pain
- Central venous catheter**, see Equipment, catheters
- Cerebral blood flow**, see Brain, blood flow
- Cerebral palsy**, see Complications
- Cerebrospinal fluid**, see Spinal cord
- Cervical spine injury**, see Complications
- 2-Chloroprocaine**, see Anesthetics, local
- Circuits**, see Equipment
- Circulation**, see Individual organs
- Clonidine**
- see Premedication
  - see Sympathetic nervous system, pharmacology
- Coagulation**, see Blood
- Colloids**, see Fluid balance
- Complications**
- acidemia
  - methylmalonic, 499
  - aspiration
  - acidic gastric contents, ranitidine and, 787
  - aspiration pneumonitis
  - oral intake during parturition and (letter), 673
  - bronchial obstruction
  - secondary to nasotracheal intubation, 487
  - bronchospasm
  - after F<sub>2α</sub> prostaglandin and endotracheal intubation, 87
  - burns
  - from CO<sub>2</sub> laser radiation reflection, 338
  - receptor-selective opioids potency after, 427
  - carnitine deficiency (letter), 672
  - cauda equina syndrome
  - spinal anesthesia and (letter), 367
  - cerebral palsies
  - electromyographic response to vecuronium, 275
  - cervical spine injury
  - possible, airway management for, 471
  - diabetes
  - insulin-dependent, perioperative maternal and neonatal acid-base status and glucose metabolism in, 105
  - eclampsia
- cesarean section, anesthetic effects on hemodynamic and neuroendocrine stress responses, 772
- electrical shock**, 355
- lightning, telephone-mediated, causalgia from (letter), 507
  - foreign body
  - from Patil-Syracuse mask (letter), 359
  - headache
  - from postoperative supraorbital neuralgia, 490
  - heart failure
  - cardiovascular effects of volatile anesthesia and, 441
- hypercarbia**
- pediatric cardiac arrhythmias and, 720
- hypertension**
- electroconvulsive therapy and, prevention of, 556, 563
- hypocalemia**
- after abdominal aneurysm repair in renal insufficiency patient, 638
- hypotension**
- after abdominal aorta aneurysm repair in renal insufficiency patient, 638
- laceration**
- lung, after tracheal extubation over plastic tube changer, 350
- obesity**
- sufentanil pharmacokinetics in, 790
- Prader-Willi syndrome**
- rumination risk of aspiration of gastric contents in, 492
- pressure sores**
- epidural analgesia and, 657
- punctate lesions**
- suction catheter and (letter), 238
- renal failure**
- hypocalcemia after abdominal aortic aneurysm repair in, 638
- scleredema**
- in pregnant diabetic patient, anterior spinal artery syndrome after epidural anesthesia in, 90
- syringe interchange**
- accidental, packaging and (letter), 508
- trauma**
- pharynx, suctioning and (letter), 238
- Congenital defects**, see Heart
- Consent**, see Medicolegal
- Contractility**, see Heart
- Convulsions**, see Brain
- Coronary artery bypass grafting**, see Surgery, cardiovascular
- Coronary steal**, see Heart
- Corticosterone**, see Hormones
- Cortisol**, see Hormones
- Creatine kinase**, see Enzymes
- Cuffs**, see Equipment
- Dantrolene**, see Pharmacology
- Dead space**
- see Lung, alveolar dead space
  - see Ventilation
- Desflurane**
- see Anesthetics, volatile
  - see Metabolism
  - see Toxicity, local anesthetic
- Dexmedetomidine**, see Sympathetic nervous system, pharmacology
- Diabetes**, see Complications
- Diclofenac**, see Analgesics
- Digital nerve block**, see Anesthetic techniques, regional
- Do-not-resuscitate (DNR) patient**, see Ventilation, artificial
- Dobutamine**, see Sympathetic nervous system, pharmacology
- Doppler ultrasound**, see Measurement techniques, ultrasound
- Double burst stimulation**, see Measurement techniques
- Drawover anesthesia system**, see Equipment
- Dysrhythmias**, see Heart
- Ear**, see Hearing
- Echocardiography**, see Measurement techniques
- Eclampsia**, see Complications
- Edema**, see Lung
- Eisenmenger's complex**, see Heart, congenital defects
- Elderly**, see Age factors
- Electrical shock**
- see Complications
  - see Shock
- Electrical stimulation**, see Monitoring
- Electrical systems**
- bipolar
  - shock, by dislodged spark gap, 355
  - conductivity
  - shock and, 355
  - fires
  - electrocautery system (letter), 358
  - misunderstanding of pulse oximetry readings and (letter), 97
- Electrocardiography**, see Monitoring
- Electroconvulsive therapy**, see Anesthesia
- Embolism**
- air
  - during lumbar laminectomy in prone position, 346
- Enalaprilat**, see Enzymes, angiotensin-converting
- Endarterectomy**, see Surgery, carotid endarterectomy
- Endobronchial technique**, see Anesthetic techniques
- Endobronchial tubes**, see Equipment, tubes
- β-Endorphins**, see Hormones
- Endoscopy**, see Surgery
- Endotracheal extubation**, see Anesthetic techniques, extubation
- Endotracheal technique**, see Anesthetic techniques
- Endotracheal tubes**, see Equipment, tubes

- Endrate**, see Anesthetics, intravenous, etomidate
- Enflurane**, see Anesthetics, volatile
- Enzymes**
- angiotensin-converting
  - enalaprilat, cardiovascular effects of volatile anesthesia and, 441
  - creatine kinase
  - masseter muscle spasm and (letter), 364
  - phosphodiesterase inhibitors
  - contractile performance effects, halothane, isoflurane and, 76
- Epidural**, see Anesthetic techniques
- Epinephrine**, see Sympathetic nervous system, pharmacology
- Equipment**
- adapters
  - single-use, reinsertion of catheter into (letter), 826
  - aerosol cannister (letter), 675
  - airway
  - leaks (letter), 236
  - bronchoscopes
  - retrograde-assisted fiberoptic tracheal intubation in children and, 660
  - catheters
  - central venous, components, flow rate effects, 573
  - epidural, irretrievable, retrieval of (letter), 508
  - intravenous, gauge, intradermal anesthesia pain and, 469
  - pulmonary arterial, components, flow rate effects, 573
  - reinsertion into a single-use adapter (letter), 826
  - spinal, continuous, aseptic closed system for injections through (letter), 824
  - spinal, continuous, failure, 394
  - spinal, continuous, strength of, 394
  - circuits
  - anesthetic, temperatures, isoflurane, sevoflurane breakdown and (letter), 670
  - anesthetic, temperatures, soda lime (letter), 670
  - breathing, leak (letter), 365
  - cuffs
  - endotracheal, pressure increase, nitrous oxide-induced, prevention of (letter), 232
  - drawover anesthesia system (letter), 826
  - esophageal detector (letter), 671, 672
  - flowmeters
  - electromagnetic, cardiac output measurement, 455
  - laser
  - CO<sub>2</sub>, reflection, from laser-resistant endotracheal tubes, 338
  - machines, anesthesia
  - leaks (letter), 236
  - masks
- anesthesia, Patil-Syracuse, foreign body from (letter), 359
- endoscopy, Patil-Syracuse, potential complication of (letter), 668
- oxygen concentrator
- linked to a drawover vaporizer (letter), 826
- stethoscopes
- precordial, joined at stopcock (letter), 828
  - precordial, stopcock position and (letter), 98
- syringes
- interchange, accidental, packaging and (letter), 508
- pumps, loading port for (letter), 670
- tubes
- endobronchial, double-lumen, left, depth of placement, 856
  - endobronchial, double-lumen, manufacturing defect (letter), 825
  - endotracheal, armored, airway obstruction and (letter), 95
  - endotracheal, cuff pressure, nitrous oxide and (letter), 99
  - endotracheal, laser-resistant, reflection of CO<sub>2</sub> laser radiation from, 338
  - endotracheal, placement, assessment of (letter), 507
  - endotracheal, placement, esophageal detector and (letter), 671, 672
  - intravenous, obstruction of (letter), 98
  - leaks (letter), 236
  - oxygen economizer (letter), 826
- vaporizers
- drawover (letter), 826
- Esmolol**, see Sympathetic nervous system, pharmacology
- Esophageal detector**, see Equipment
- Ethics**
- do-not-resuscitate (DNR) patient and, 221
- Etomidate**, see Anesthetics, intravenous
- Evoked potentials**, see Monitoring
- Extubation**, see Anesthetic techniques
- Eye**
- anisocoria (letter), 97
  - mydriasis
  - scopolamine (letter), 824
- Fentanyl**
- see Analgesics
  - see Anesthetics, intravenous
- Finapres**, see Blood pressure, measurement techniques
- Fire**
- see Electrical systems
  - see Surgery, laser
- Flow**, see Physics
- Flowmeters**, see Equipment
- Fluid balance**
- colloid
  - hydroxyethyl starch, for hemorrhagic shock, hemodynamics effects, 738
- Hyskon**
- during hysteroscopy, 186
- saline**
- hypertonic, in hemorrhagic shock, hemodynamics effects, 738
  - hypertonic, rapid infusion, hypotension caused by, 597
- Flunitrazepam**, see Hypnotics, benzodiazepines
- Fluoride**, see Ions
- Foreign body**, see Complications
- Galvanic response**, see Skin
- Gastrointestinal tract**
- antacids
  - esophageal intubation with, capnography identification of, 333
- stomach**
- aspiration, rumination risk of, in Prader-Willi syndrome, 492
  - metoclopramide, as adjunct to patient-controlled analgesia, 553
  - pH, ranitidine effects on, 787
  - volume, ranitidine effects on, 787
- Glucose**
- see Blood
  - see Metabolism
- Glycopyrrolate**, see Premedication
- Greene, Nicholas M** (editorial), 1
- Gynecologic surgery**, see Surgery
- Halothane**, see Anesthetics, volatile
- Headache**, see Complications
- Hearing**
- ear
  - hyperacusis (letter), 506
- Heart**
- arrhythmias
  - amiodarone, intraoperative pulmonary edema and, 821
  - bradycardia, body tilt during spinal anesthesia and, 385
  - electroconvulsive therapy and, prevention of, 556, 563
  - norepinephrine- and acetylcholine-induced, volatile anesthetics and, 304
  - pediatric, 720
  - pediatric, supraventricular tachycardia, termination with adenosine, 665
  - slow responses, halothane/epinephrine interaction and, 449
  - tachycardia, tracheal intubation-associated, prevention of (letter), 502
  - ventricular, conduction, bupivacaine, halothane interaction and, 434
- asystole**
- fentanyl, propofol, and succinylcholine and, 818
- blood flow**

myocardial, phenylephrine effects on, 283  
**cardiac output**  
 end-tidal  $\text{PCO}_2$  effects on, 808  
 halothane effects on, cardiopulmonary bypass and cardioplegia and, 513  
 measurement, by transesophageal Doppler, during aortic reconstructive surgery, 705  
 measurement, by tracheal Doppler, electromagnetic flow meter, and thermodilution, 455  
**congenital defects**  
 Eisenmenger's complex, pheochromocytoma in, 496  
 patent ductus arteriosus, one-lung ventilation, hypoxic pulmonary vasoconstriction and (letter), 358  
**contractility**  
 augmentation, cardiac output effects, enflurane anesthesia and, 590  
**coronary steal**  
 vasodilators and (editorial), 681  
**dysrhythmias**  
 pediatric, oximetry and capnography and (editorial), 686  
**electrocardiography**  
 slow responses, halothane/epinephrine interaction and, 449  
**failure**  
 cardiovascular effects of volatile anesthesia and, 441  
**function**  
 adenosine effects on, 689  
**ischemia**  
 adenosine effects on, 689  
 halothane protective properties in, 711  
**myocardial function**  
 halothane effects on, 76  
 halothane effects on, cardiopulmonary bypass and cardioplegia and, 513  
 isoflurane effects on, 16, 76  
 propofol, methohexitol effects on, 3  
**myocardium**  
 calcium flux, sarcolemma, ketamine effects on, 804  
 oxygen consumption  
 myocardial, phenylephrine effects on, 283  
**Purkinje fibers**  
 action potential, halothane, isoflurane, enflurane effects on, 603  
**sinoatrial node**  
 norepinephrine and acetylcholine effects on, volatile anesthetics and, 304  
**vascular capacitance**  
 response to hypoxia, halothane effects on, 319  
**vascular pressures**  
 augmentation, cardiac output effects, enflurane anesthesia and, 590  
**ventricles**

contractile force and conduction, bupivacaine, halothane interaction, in pediatric patients, 434  
**Hemodynamics**  
 endotracheal extubation after coronary artery bypass grafting and, 10  
**Hemorrhagic shock**, see Shock  
**Hormones**  
 adrenocorticotropin  
 dexmedetomidine effects on, 204  
 electroconvulsive therapy  
 cardiovascular and neuroendocrine responses and, 563  
 antidiuretic  
 vasopressin, electroconvulsive therapy  
 cardiovascular and neuroendocrine responses and, 563  
 vasopressin, nalbuphine, fentanyl effects, coronary artery bypass surgery and, 521  
 corticosterone  
 dexmedetomidine effects on, 204  
 receptor-selective opioids effects on, after burn injury, 427  
 cortisol  
 dexmedetomidine effects on, 204  
 electroconvulsive therapy  
 cardiovascular and neuroendocrine responses and, 563  
 nalbuphine, fentanyl effects, coronary artery bypass surgery and, 521  
 $\beta$ -endorphin  
 receptor-selective opioids effects on, after burn injury, 427  
 prostaglandin  
 bronchospasm and, 87  
**Hydroxyethyl starch**, see Fluid balance, colloid  
**Hyperacusis**, see Hearing, ear  
**Hypercarbia**  
 see Carbon dioxide  
 see Complications  
**Hypertension**  
 see Blood pressure  
 see Complications  
**Hyperthermia**  
 malignant  
 diagnostic signs (letter), 364  
 propofol and (letter), 358  
 tests for, sensitivity and specificity of (letter), 233  
**Hypnosis**  
 vomiting induction and (letter), 360  
**Hypnotics**  
 benzodiazepines  
 flunitrazepam, for coronary artery bypass, 521  
 midazolam, alcohol interaction with (letter), 829  
 midazolam, auditory event-related potential measures of selective attention effects, 612  
 midazolam, cardiovascular responses to stimulation of central nervous system pressor sites effects, 64  
 midazolam, intrathecal, morphine-induced antinociception effects, 124  
**sedatives**  
 withholding of, consent and (letter), 361  
**Hypocalcemia**  
 see Complications  
 see Ions, calcium  
**Hypoperfusion**, see Shock  
**Hypotension**  
 see Anesthetic techniques, hypotensive  
 see Blood pressure  
**Hypothalamus**, see Brain  
**Hypothermia**  
 pulse oximetry signal loss and, digital nerve block restoration of, 815  
 somatosensory evoked potentials effects, 653  
**Hypoxia**  
 pediatric  
 tracheal extubation and, 266  
 responses to  
 halothane effects on, 319  
**Hyskon**  
 see Fluid balance  
 see Surgery, gynecologic, hysteroscopic  
**Hysteroscopy**, see Surgery, gynecologic  
**Ibuprofen**, see Analgesics  
**Imidazole**, see Receptors, adrenergic, agonists  
**Infection**  
 continuous spinal catheter system and, prevention (letter), 824  
 upper respiratory  
 pediatric, misclassification (letter), 828  
**Infiltration**, see Anesthetic techniques, regional  
**Inhalation anesthesia**, see Anesthetic techniques  
**Intensive care**  
 ethical issues in do-not-resuscitate (DNR) patient, 221  
**Interactions, drug**  
 midazolam-opioids, 124  
**International Anesthesia Research Society**, see Organizations  
**Interpleural**, see Anesthetic techniques, regional  
**Interpleural local anesthetics**, see Anesthetic techniques, regional, interpleural  
**Intrapleural local anesthetics**, see Anesthetic techniques, regional, interpleural  
**Intrathecal**, see Anesthetic techniques, spinal  
**Intravenous anesthesia**, see Anesthetic techniques  
**Intubation**

**esophageal**  
carbonated beverages or antacid in stomach and, capnography identification of, 333  
**tracheal**  
bronchial obstruction secondary to, 487  
capnography false-positives in (letter), 509  
in cervical spine injury, 471  
endotracheal tube placement assessment (letter), 507  
pediatric, retrograde-assisted fiberoptic, 660  
plastic tube changer, lung laceration over, 350  
vascular response prevention (letter), 502  
**Ions**  
calcium  
hypocalcemia, after abdominal aorta aneurysm repair in renal insufficiency patient, 638  
transsarcolemmal entry, in myocardium, ketamine effects on, 804  
fluoride  
desflurane metabolism and, 180  
inorganic, plasma levels, isoflurane effects on, renal function and, 731  
**Ischemia**  
see Brain  
see Heart  
see Position, effects, cardiovascular  
**Isoflurane**  
see Anesthetics, volatile  
see Biotransformation, drug  
see Toxicity, local anesthetic  
**Ketamine**, see Anesthetics, intravenous  
**Ketorolac**  
see Analgesics  
see Pain, postoperative  
**Kidney**  
blood flow  
halothane, isoflurane effects on, 441  
failure  
hypocalcemia after abdominal aortic aneurysm repair in, 638  
function  
plasma inorganic fluoride concentrations during and after prolonged isoflurane and, 731  
transplantation  
pediatric, with adult kidney, anesthetic management, 725  
**L-644,711**, see Theories of anesthetic action, anion transport inhibitor  
**Labetalol**, see Sympathetic nervous system, pharmacology  
**Laceration**, see Complications  
**Lactate**, see Metabolism  
**Laminectomy**, see Surgery

**Laparoscopy**, see Surgery  
**Laryngotracheal reconstruction**, see Surgery, pediatric  
**Larynx**  
succinylcholine effects on, 278  
**Laser**  
see Equipment  
see Surgery  
**Lidocaine**, see Anesthetics, local  
**Liver**  
transplantation  
vecuronium, pancuronium, atracurium dose requirements during, 794  
**Lung**  
alveolar dead space  
increase, PETCO<sub>2</sub> reduction from, 808  
bronchospasm  
after F<sub>2a</sub> prostaglandin and endotracheal intubation, 87  
carbon dioxide elimination  
cardiac output and, 808  
edema  
intraoperative, amiodarone and, 821  
reexpansion, after mediastinal tumor removal, 646  
function  
halothane, sevoflurane effects on, 327  
laceration  
after tracheal extubation over plastic tube changer, 350  
occlusion pressure  
halothane, sevoflurane effects on, 327  
shunting  
hypoxic pulmonary vasoconstriction during one-lung ventilation in patent ductus arteriosus (letter), 358  
**Machines**, see Equipment  
**Masks**, see Equipment  
**Masseter muscle**, see Muscle, skeletal  
**Measurement techniques**  
blood pressure  
arterial, invasive, erroneous (letter), 96  
intraarterial, oscillometric, Finapres, 213  
tonometry, in controlled hypotension, 54  
cardiac output  
Doppler ultrasound, during aortic reconstructive surgery, 705  
radioactive tracers, propofol, methohexitol effects and, 3  
double burst stimulation  
visual assessment of, 627  
echocardiography  
transesophageal-biplane, remote asynergy detected by, during myocardial revascularization, 642  
oximetry  
cardiac dysrhythmias in pediatric patients and (editorial), 686  
pediatric cardiac arrhythmias and, 710

**pulse oximetry**  
misunderstanding of readings, potential hazard associated with (letter), 97  
performance, during Valsalva maneuver, 765  
signal loss, digital nerve block restoration of, 815  
**thermodilution**  
cardiac output measurement, 455  
**train-of-four stimulation**  
visual assessment, 627  
**ultrasound**  
Doppler, transesophageal, cardiac output, during aortic reconstructive surgery, 705  
Doppler, transtracheal, cardiac output, 455  
**Mediastinum**, see Anesthesia, thoracic  
**Medicolegal**  
consent  
withholding sedatives and (letter), 361  
**Metabolism**  
desflurane  
fluoride ion and, 180  
glucose  
maternal and neonatal, perioperative, in insulin-dependent diabetes mellitus, 105  
lactate  
maternal and neonatal, in insulin-dependent diabetes mellitus, 105  
protein  
amino acids, methylmalonyl-coenzyme A mutase deficiency, 499  
pyruvate  
maternal and neonatal, in insulin-dependent diabetes mellitus, 105  
**Methohexitol**, see Anesthetics, intravenous  
**Methoxyflurane**, see Anesthetics, volatile  
**Methylmalonyl-coenzyme A mutase deficiency**  
see Anesthesia, pediatric  
see Protein, amino acids, metabolism  
**Metoclopramide**, see Gastrointestinal tract, stomach  
**Microcirculation**  
arterioles  
dilation, serotonin effects, halothane and, 583  
**Midazolam**  
see Hypnotics, benzodiazepines  
**Monitoring**  
airway pressure  
leaks in circle system (letter), 236  
blood gas monitors  
intravascular, compared to conventional (letter), 830  
blood pressure  
tonometry, noninvasive, in controlled hypotension, 54  
breath sounds and heart

- stethoscope, stopcock position and (letter), 98
- cardiac output**
- transesophageal Doppler, during aortic reconstructive surgery, 705
- continuous**
- of pH<sub>a</sub>, Paco<sub>2</sub>, Pao<sub>2</sub>, intraarterial, 43
- electrical stimulation**
- transcranial, motor evoked responses to, isoflurane effects on, 410
- electrocardiography**
- pediatric, cardiac arrhythmias and, 710
- evoked potentials**
- motor, to transcranial electrical stimulation, isoflurane effects on, 410
  - somatosensory, during carotid endarterectomy, head position and, 649
  - somatosensory, regional hypothermia effects on, 653
- neuromuscular**
- vocal cords and adductor pollicis muscle, succinylcholine effects on, 278
- oxygen**
- mixed venous saturation, during aortic surgery, 530
- Monitors, see Monitoring**
- Morphine**
- see Analgesics
  - see Anesthetic techniques, epidural
  - see Potency, anesthetic, tolerance
- Muscle**
- skeletal**
    - adductor pollicis, succinylcholine effects on, 278
    - masseter, spasm, in children, triggering agents continued after (letter), 364
    - masseter, spasm, in children (letter), 361
    - serotonin-induced vasoconstriction, halothane and, 583
- Mydriasis, see Eye**
- Myocardium**
- see Heart, blood flow, myocardial
  - see Heart, oxygen consumption, myocardial
- Nalbuphine, see Analgesics**
- Naloxone, see Antagonists, narcotic**
- Narcotics, see Analgesics**
- Neuromuscular blockade, see**
- Neuromuscular relaxants
- Neuromuscular relaxants**
- atracurium**
    - liver transplantation, dose requirements, 794
  - neuromuscular blockade**
    - versus neuromuscular "block" (letter), 669
  - pancuronium**
- dialysate, recovery from, in burned child, 83**
- liver transplantation, dose requirements, 794**
- oculocardiac reflex effects, in children, 25**
- succinylcholine effects on (letter), 237**
- pancuronium**
- succinylcholine effects on (letter), 237**
  - succinylcholine**
- asystole after, 818
  - doxacurium-induced neuromuscular blockade and (letter), 237
  - masseter muscle spasm and (letter), 364
  - vocal cord and adductor pollicis muscle effects, 278
- vecuronium**
- cerebral palsy and, 275
  - distribution, elimination, and action, in elderly, 39
  - requirements during halothane-narcotic-nitrous oxide, isoflurane-narcotic-nitrous oxide, narcotic-nitrous oxide anesthesia, pediatric, 33
- Neuromuscular transmission**
- stimulator, nerve, submaximal currents, visual assessment of train-of-four and double burst-induced fade at, 627
- Neurosurgical anesthesia, see Anesthesia, neurosurgical**
- Nicardipine, see Pharmacology**
- Nitroprusside**
- see Anesthetic techniques, hypotensive
  - see Pharmacology
- Nitrous oxide, see Anesthetics, gases**
- Obesity, see Complications**
- Obstetrics, see Anesthesia**
- Occlusion pressure, see Lung**
- Ocfentanil, see Anesthetics, intravenous**
- Oculocardiac reflex, see Anesthesia, ophthalmologic**
- Ondansetron, see Vomiting, antiemetics**
- Ophthalmologic anesthesia, see**
- Anesthesia
- Opioids, see Analgesics**
- Organizations**
- International Anesthesia Research Society, seal (letter), 830
- Outpatient anesthesia, see Anesthesia**
- Oximetry, see Measurement techniques**
- Oxycodone, see Analgesics**
- Oxygen**
- consumption
    - brain, halothane effects on, 758
    - heart, phenylephrine effects on, 283
  - uptake
    - aortic surgery and, 530
    - cerebral circulation and (letter), 504
- Oxygen concentrator, see Equipment**
- Oxygen economizer tube, see Equipment, tubes**
- Oxygen saturation, see Monitoring, oxygen**
- P300, see Recovery**
- Paco<sub>2</sub>, see Monitoring, continuous**
- Pain**
- back
    - after epidural anesthesia with chlorprocaine (letter), 232
  - causalgia
    - caused by telephone-mediated lightning electrical injury, interpleural block treatment of (letter), 507
  - measurement
    - lidocaine pH and intravenous catheter gauge and, 469
  - patient-controlled analgesia
    - obstetric, epidural, demand dosing, 547
    - obstetric, metoclopramide as adjunct to, 553
  - phantom limb
    - intrathecal drug infusion, 226
  - postoperative
    - arthroscopy, bupivacaine effects on, 536
    - bupivacaine, continuous epidural, epidural fentanyl and, 132
    - cholecystectomy, bupivacaine, interpleural, comparison of 40 milliliters of 0.25% with epinephrine with 20 milliliters of 0.5% with epinephrine, 397
    - fentanyl, continuous epidural or PCA, epidural bupivacaine and, 132
    - ketorolac, bleeding diathesis and (letter), 235
    - laparoscopic tubal ligation, dexmedetomidine effects on, 112
    - sufentanil dose-response in gynecologic surgery, 405
  - spasticity
    - spinal infusion based treatment, subcutaneously implanted pumps, 226
- Pancuronium, see Neuromuscular relaxants**
- Pao<sub>2</sub>, see Monitoring, continuous**
- Parasympathetic nervous system**
- scopolamine
    - mydriasis (letter), 824
- Patent ductus arteriosus, see Heart, congenital defects**
- Patient-controlled analgesia, see Pain**
- Pediatric anesthesia, see Anesthesia**
- pH, see Acid-base equilibrium**
- pH<sub>a</sub>, see Monitoring, continuous**
- Phantom limb, see Pain**
- Pharmacodynamics**
- morphine
    - brain concentration, 619
  - vecuronium

- in elderly, 39
- Pharmacokinetics**
- desflurane, 209
  - enflurane
    - age effects on, 310
  - halothane, 209
    - age effects on, 310
  - isoflurane, 209
    - age effects on, 310
  - methoxyflurane
    - age effects on, 310
  - sufentanil
    - in obese patients, 790
- Pharmacology**
- dantrolene (letter), 364
  - nicardipine
    - induced hypotension, 341
  - nitroprusside
    - induced hypotension, 59, 341
    - induced hypotension, cerebral autoregulation effects, 745
  - phosphodiesterase inhibitors, 76
  - trimethaphan
    - induced hypotension, 59
- Pharynx**, see Complications, trauma
- Phenylephrine**, see Sympathetic nervous system, pharmacology
- Pheochromocytoma**, see Surgery
- Phosphodiesterase inhibitors**
- see Enzymes
  - see Pharmacology
- Physics**
- flow
    - pulmonary artery catheter components and, 573
- Pilocarpine**
- see Anesthesia, ophthalmologic
  - see Parasympathetic nervous system
- Pipecuronium**, see Neuromuscular relaxants
- Pneumonitis**, see Complications, aspiration pneumonitis
- Position**
- effects
    - cardiovascular, ischemia, 649
    - circulatory, spinal anesthesia and, 385
    - lateral
      - full-flexed and non-full-flexed, cerebrospinal fluid pressure difference between, spinal anesthesia level prediction and, 391
    - prone
      - lumbar laminectomy, venous air embolism during, 346
    - respiratory function and ribcage contribution to ventilation and, 422
- Positive end-expiratory pressure**, see Ventilation
- Potency, anesthetic**
- isoflurane, L-644,711 effects on, 199
  - tolerance
    - morphine, 619
- Prader-Willi syndrome**, see Complications
- Premedication**
- atropine**
- oral, halothane cardiovascular depression and, 271
- butylscopolamine**
- intravenous, transient anisocoria after (letter), 97
- clinical and metabolic responses**, 49
- clonidine**
- anxiety control, temazepam, timolol compared to, 633
  - ventilatory effects, 799
- glycopyrrolate**
- oral, halothane cardiovascular depression and, 271
- ranitidine**
- gastric fluid acidity effects, 787
- temazepam**
- anxiety control, clonidine, timolol compared to, 633
- timolol**
- anxiety control, temazepam, clonidine, compared to, 633
- Pressure sores**, see Complications
- Propofol**, see Anesthetics, intravenous
- Prostaglandin**, see Hormones
- Protein**
- amino acids
    - metabolism, methylmalonyl-coenzyme A mutase deficiency, 499
- Psychological responses**
- related to anesthesia
    - survey of, 190
- Publications**
- Anesthesia & Analgesia* (editorial), 1
  - Anesthesia and Analgesia* percentage share of (letter), 233
  - Anesthesiology* percentage share of (letter), 233
- Pulmonary artery catheter**, see Equipment, catheters
- Pulse oximetry**, see Measurement techniques
- Punctate lesions**, see Complications
- Purkinje fibers**, see Heart
- Pyruvate**, see Metabolism
- Radioactive tracers**, see Measurement techniques, cardiac output
- Ranitidine**, see Premedication
- Reaction time**, see Recovery
- Receptors**
- adrenergic
    - agonists,  $\alpha_2$ , dexmedetomidine, 204
    - agonists, imidazole, 294
    - glucocorticoid
      - dexmedetomidine effects on, 204
  - pressoreceptors
    - stimulation, cardiovascular responses to, isoflurane, midazolam, etomidate effects on, 64
- Recovery**
- anesthesia
    - desflurane, psychomotor performance, isoflurane compared to, 260
    - isoflurane, psychomotor performance, desflurane compared to, 260
- attention**
- midazolam effects on, 612
- outcome**
- vascular surgery, epidural anesthesia and analgesia effects on, 696
- P300**
- midazolam effects on, 612
- reaction time**
- midazolam effects on, 612
- Regional anesthesia**, see Anesthetic techniques
- Renal**
- see Complications
  - see Kidney
- Respiration**, see Ventilation
- Respiratory tract infection**, see Infection, upper respiratory
- Resuscitation**
- see Complications, cardiac arrest
  - see Ventilation, artificial
- Reticular formation**, see Brain
- Ribcage**
- contribution to ventilation, body position and, 422
- Ropivacaine**, see Anesthetics, local
- Saline**, see Fluid balance
- Scalp infiltration**, see Anesthetic techniques, regional, infiltration
- Scleredema**, see Complications
- Scopolamine**
- see Anesthesia, ophthalmologic
  - see Eye, mydriasis
  - see Parasympathetic nervous system
  - see Premedication, butylscopolamine
- Sedatives**, see Hypnotics
- Serotonin**
- see Muscle, skeletal
  - see Sympathetic nervous system
- Sevoflurane**
- see Anesthetics, volatile
  - see Biotransformation, drug
- Shock**
- electrical, 355
  - lightning, telephone-mediated, causalgia from (letter), 507
- hemorrhagic**
- hypertonic hyperoncotic fluid resuscitation after, 738
- hypoperfusion**
- positive end-expiratory pressure, arterial and mixed venous blood acid-base balance during, 576
- Shunt**, see Lung, shunting
- Sinoatrial node**, see Heart
- Skin**
- galvanic response
    - sympathetic nerve activity in regional anesthesia and, 138
  - vasoconstriction

- sweating threshold and, isoflurane effects on, 300
- Somatosensory evoked responses**, see Monitoring, evoked potentials
- Spasticity**, see Pain
- Spinal anesthesia**, see Anesthetic techniques
- Spinal cord**
- anterior spinal artery syndrome
  - after epidural anesthesia in pregnant diabetic scleredema patient, 90
  - blood flow
  - isoflurane effects, 753
  - cerebrospinal fluid
  - pressure, epidural injection and (letter), 668
  - pressure, spinal anesthesia level and, full-flexed and non-full-flexed lateral position and, 391
- Stellate ganglion block**, see Anesthetic techniques, regional
- Stethoscope**, see Equipment
- Stimulator, nerve**, see Neuromuscular transmission
- Stomach**, see Gastrointestinal tract
- Succinylcholine**, see Neuromuscular relaxants
- Sufentanil**, see Analgesics
- Supraorbital nerve block**, see Anesthetic techniques, regional
- Surgery**
- aneurysm
  - abdominal aortic, hypocalcemia after, in renal insufficiency patient, 638
  - aortic, oxygen uptake and mixed venous oxygen saturation and, 530
  - cardiovascular
  - cardiopulmonary bypass, halothane ventricular function effects and, 513
  - coronary artery bypass grafting, adenosine effects on myocardial blood flow and metabolism after, 689
  - coronary artery bypass grafting, hemodynamic responses to endotracheal extubation after, lidocaine effects on, 10
  - coronary artery bypass grafting, nalbuphine, fentanyl comparisons in, 521
  - coronary artery bypass grafting, remote asynergy detected by biplane transesophageal echocardiography during, 642
  - carotid endarterectomy
  - somatosensory evoked responses changes, head position and, 649
  - endoscopy
  - mask, Patil-Syracuse, potential complication of (letter), 668
  - gynecologic
  - hysteroscopic, Hyskon levels during, 186
  - tubal ligation, laparoscopic,
- postoperative pain, dexmedetomidine effects on, 112
- Laminectomy**
- lumbar, in prone position, venous air embolism during, 346
- Laparoscopy**
- postoperative analgesia, ibuprofen compared to fentanyl, 250
  - tubal ligation, postoperative pain, dexmedetomidine effects on, 112
- Laser**
- CO<sub>2</sub>, reflection of radiation from laser-resistant endotracheal tubes, 338
  - fires, 338
- Neurologic**
- cerebrovascular, carotid
  - endarterectomy, cerebral blood flow reactivity to carbon dioxide during halothane versus isoflurane, 416
- Pediatric**
- laryngotracheal reconstruction, perioperative management, 483
- Pheochromocytoma**
- truncus arteriosus and Eisenmenger's syndrome associated with, 496
- Transplantation**
- kidney, pediatric, with adult kidney, anesthetic management, 725
  - liver, vecuronium, pancuronium, atracurium dose requirements during, 794
- Vascular**
- aortic reconstructive, transesophageal Doppler cardiac monitoring during, 705
  - epidural anesthesia and analgesia effects on coagulation and outcome, 696
- Sympathetic nervous system**
- β-adrenergic antagonists
  - electroconvulsive therapy, cardiovascular and neuroendocrine responses and, 563
- Blockade**
- in regional anesthesia, galvanic skin response and, 138
- Catecholamines**
- clonidine effects on, 460
  - electroconvulsive therapy, cardiovascular and neuroendocrine responses and, 563
  - nalbuphine, fentanyl effects, coronary artery bypass surgery and, 521
- Hypoxia effects on**
- halothane modification of, 319
- Pharmacology**
- adenosine, supraventricular tachycardia termination with, pediatric, 665
  - amiodarone, intraoperative pulmonary edema and, 821
  - clonidine, plasma catecholamine and outcome from incomplete ischemia effects, 460
- clonidine, premedication, ventilatory effects, 799
- dexmedetomidine, intravenous, laparoscopic tubal ligation pain effects, 112
- dobutamine, cardiac contractility effects, enflurane and, 590
- epinephrine, epidural morphine analgesia and side effects and, 119
- epinephrine, threshold for slow responses development in trabeculae, halothane effects on, 449
- epinephrine wash (letter), 673
- esmolol, as supplement to propofol-N<sub>2</sub>O anesthesia, alfentanil compared with, 540
- esmolol, electroconvulsive therapy, cardiovascular and neuroendocrine responses and, 563
- labetalol, electroconvulsive therapy, cardiovascular and neuroendocrine responses and, 563
- phenylephrine, myocardial oxygen supply/demands and, 283
- Syringes**
- see Complications
  - see Equipment
- Tachycardia**, see Heart, arrhythmias
- Temazepam**, see Premedication
- Temperature**
- regulation
  - sweating threshold, isoflurane effects on, 300
- Theories of anesthetic action**
- anion transport inhibitor, L-644,711, isoflurane MAC effects, 199
- Thermodilution**, see Measurement techniques
- Thiopental**, see Anesthetics, intravenous
- Timolol**, see Premedication
- Tolerance**, see Potency, anesthetic
- Tonometry**, see Measurement techniques, blood pressure
- Toxicity**
- local anesthetics
  - bupivacaine, treatment, 373
  - desflurane, in guinea pig liver slices (letter), 830
  - isoflurane, in guinea pig liver slices (letter), 830
  - ropivacaine, treatment, 373
- Tracheal intubation**, see Intubation
- Train-of-four stimulation**, see Measurement techniques
- Trauma**, see Complications
- Trimethaphan**
- see Anesthetic techniques, hypotensive
  - see Pharmacology
- Tubal ligation**
- see Surgery, gynecologic
  - see Surgery, laparoscopy
- U50488H**, see Analgesics

**Ultrasound**, see Measurement techniques

**Valsalva maneuver**, see Anesthesia, obstetric

**Vaporizers**, see Equipment

**Vascular capacitance**, see Heart

**Vascular pressures**, see Heart

**Vasoconstriction**, see Skin

**Vasopressin**, see Hormones, antidiuretic

**Vecuronium**

see Neuromuscular relaxants

see Pharmacodynamics

**Ventilation**

artificial

cardiopulmonary resuscitation, end-tidal  $\text{PCO}_2$  effects on cardiac output and, 808

do-not-resuscitate (DNR) patient, ethical issues in, 221

clonidine premedication effects on, 799  
dead space

arterial and mixed venous blood acid-base balance during hypoperfusion with incremental positive end-expiratory pressure, 576

increase,  $\text{P}(\text{ETCO}_2)$  reduction from, 808  
halothane effects on, 327

high-frequency  
inhaled anesthesia administration with, 465

one-lung

patent ductus arteriosus, hypoxic pulmonary vasoconstriction and (letter), 358  
positive end-expiratory pressure  
hypoperfusion and, arterial and mixed venous blood acid-base balance during, 576

respiratory function and ribcage contribution to, body position and, 422

sevoflurane effects on, 327

spontaneous

desflurane effects on, nitrous oxide and, 165  
nitrous oxide effects on, desflurane and, 165

**Ventricles**, see Heart

**Vocal cords**, see Larynx

**Vomiting**

antiemetics

ondansetron, 246  
ondansetron, after outpatient laparoscopy, 250  
ondansetron (editorial), 243  
induction of (letter), 360